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nntcaaatc cngtgactgg gatcactcaa cagnacngtg atgtangann nncaangagg 120  
tgccnnnctn aactgaccaa atgctgcctt gtttgccccc taaatcaata aaatatgtna 180  
aaatttgat cccctgttgt ggcatttttn tnagataatc naagcnagaa aaatganang 240  
gaatnctgga ccnggnnggg aaggaaaaga accctttctt gtcgctgna actgtgttg 300  
taaggaaagtc caaatgttg catatgaaat aagccgnaac cgctggaacn nactcctat 360  
gcagctnctc ttganccana aacaaggagc ttggtctaata gganatacac tgtgcttg 418

<210> 504  
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atggtaatcc tgctcagtac gagaggaacc gcagggttcng acatttggtg tatgtgcttg 120  
gctgangaac caatggggcg aanctacat ctgtgggatt ntgactgaac gcctctaatt 180  
cnaaatcccg cccatgcgga ac 202

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tcagcatctg caatgggcca aacacacctc aaattggctg agttgagaaa gcagccccag 120
tagttccatt cttgccagc actttctgca ttccaaacag catcctacct gggtttttta 180
tccacaaagg ttagcggcca catggttttt aaattatgaa gaaacacatt tgtcctctcc 240
ttttatccaa gcaggaanat cctatatccc tgatgggttaa aaacaaatcc aggccaccct 300
gaatttgcta ccccaaaaaa gagatttggg taanctgttt cncggtttg ttccctaagg 360
ccatatttta aaattaccac tctgggggtc ccntnaaaac cccngccggg gaccatcttg 420
cnntntgggt aaaacccctt gtttcaatct ctaaatttnc ccctaaggag ggggttggct 480
tnaaaatttg ggggaactta tcnccttca ngttttttcc ggggtacccc cccttggnng 540
gggaaaccct ggctcgggga ntganaaa 568
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<222> (178)

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taatttaagt aattgctgac tgcatagctc ttttccttna gaggtctctc attttaattc 120
aaaaagttag catatttatn aaccatgaaa ttgaaaacc agggcttttt ttttttngg 180
ggggttg 187
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tacgagggtc attttttttt tttttttttt tttttttttt tttttttttt tttnccccc 60  
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<210> 508  
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cgatgaaatt ttaacatcca aaggggggata ggcacttggn nccccattc tnccaaggcc 180  
cgggggggcg gtttcccatg ggaatgtgaa aaggctggcc attattaagt ccctgtaaat 240  
naatgtgaaa cccacccggg gcaccccccg tccccaaaag ttttggttgt ttaaaaataa 300  
gnnttccatg gggaggtttt aaaaacctgg tngccccgnt tttttttnaa ttaaaataag 360  
ggtnag 366

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cnggggtctga tttntcact gaactccacc gaccaactnc cctaagcccc nagggcctcc 120  
agggaccagg ttcgagaccc aaaccncaa aatccaaaac ttctcttgaa aagttcaggg 180  
accgtccagg ggagatgggg nggagatatg gagtgagtca cctgactcca gaagatgcca 240  
gnttctctct ccagggtgct tagttggctt tgaccacccc tnactcccca gggagctctg 300  
gggcacagct tctgcacan ccctgtgccc aaccacacag ctgccntagc tgnaccccca 360  
gaagtgtctt tggntgaccc tntgggtgtg ggtgaggggt ttgtgttccc ttntgtttc 420  
agaccctcga ttttccgtaa tggtttgggn gagttgggga ggttcaagca gagtgtttta 480  
ttattntcgg tttatg 496

<210> 510  
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<222> (25)  
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<223> n equals a,t,g, or c

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cgaagctacc atctgtggga ttatgactga acgcctctaa gtcagaatcc cgcccaggcg 120  
gaacgatacg gcagcgccgc ggagcctcgg ttggcctcgg atagccggtc ccccgctgt 180  
ccccgcgggc gggccgcccc cccctccacg cgccccgcgc gcgcgggagg gcgcgtgccc 240  
cgccgcgcgc cgggaccggg gtccgggtgcg gagtgccctt cntcctggga aacggggccc 300  
ggctggaaag gcggccgttt agaggatcca agcttacgna cgcgatgcgt cnangccata 360  
nct 363

<210> 511  
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<212> DNA  
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cccacntttc cgcataagtg ttcatactgn tacatgcaga acatttgtoa ggctctctgt 120  
cagcttttcat gtacatatgg tatagaaacc atggagttag gcacttcctg gatttttttt 180  
ttatgagaaa aatactgtat ttaaaatgta aaataaactt ttaaaaagca aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aaaaaaaaaa agaaaaaacag 300  
nttaaaaaac anaaaatnaa aaaaaaaaaa a 331

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<212> DNA  
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tcattttcaa aaaacaagca tgactcacca aaagttttaa gattttctgt gataatgttc 120  
ttattgaggc ttacattata ttacagtttc ttgaatetaa aatgatgtac cctcttagga 180  
tatatacatc atgcttcatt ggtctcaggg ggctgatttt tataaggaga gatttgctag 240  
ttttcacaaat atgtcctcta agttggcatg tatagctaaa caggctttca taaaaatata 300  
caatttagtt aatgaaattt gggatatagt cttttatgat tgaaataatt ttgctaaata 360  
gactgtctct gatttattag gtaatcacca ctcttatttt gttttacttc cttaatgtct 420  
acatagaaaag gaaatgagaa aaatccagag gttgtcattt gacttatgag tctgtttgac 480  
ttcaggattt ggtacatgaa atttcactta atctttttga tatgtataaa acaaatattc 540  
tgggtaatta tttttatcct tttggttttg antccttttt attcctatca tattgaaatt 600  
ggtaagttaa ttttcctttg aaatattcct tatagccagg tctaaaattc aatgggcccc 660  
caaccgncaa ccgccaacaa caaccaaccc cactttacta tcatggctgg gtgcctccaa 720  
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agaacanaca ggaatnctga nttaagcaca gagttgaagt ttataccoga ttcacatgct 120
tttcaagaat ntcgcaatta ctaagaagca gataatggtg ttttttagaa acctaattna 180
ggtatatattca accaaatact tttaaangta taaaataaat attatacaat anacttgtgt 240
agcag 245
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aacgttaatt gatataaaaa aaaaaaacanc aaaattnggc ttgnaaaact gacttttnca 120  
ttangngggt ttgaaatct ngccccagac atactgtgtt gngagatact tagngggagg 180  
gagtaggttt tnanngggtt gatggtggtg gggagggaag gcctcctgaa ttgngtttga 240  
tgcagagctt tttagccatg angaatcttt cagtcatagt actaataatt aaatttncag 300  
tntttaaaaa gncaagntnt ttgtccnttt tgnntttctg nactccctgg aaagttccnt 360  
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ccggttcaca attccttcac ccaaaantca tctcatggta tacatggctc ctantccttt 120  
ncattacctg atggtagaaa taaaataatt cactttaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaagggn ggccgntnta gaggatccaa gtntacgtan g 231

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<220>  
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<223> n equals a,t,g, or c

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tagcctnttc tctgccttac tt 82

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<223> n equals a,t,g, or c

<220>  
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<222> (223)  
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tccacgcca cctggctctc tccatcgcc cacaaaagg ggggcacgag ggacgagctt 120  
agctgagctg ggaggagcag ggtgagggtg ggcgaccag gattccccct ccncttcca 180  
aataaagatg aggggtactta aagttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 237

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aacagccccg gcgncgcctc tattggctct cggccttggc aacggccgtc gtcattggta 180  
ctggccctaa cagccgatgg ccgaagccga cctgccaccg ggcggggctc ctggttgcc 240  
ggncccaggc gcgcggggnc gcngnagccg agcattcttt t 281

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tcggaggcca tctcgggcac agggccaccc cgccccaccc ctccagaaca cggctcacgc 180  
ttacctcaac catcctggct gcggcgtctg tctgaaccac gcgggggcct tgagggacgc 240  
tttgtctgtc gtgatggggc aagggcacaa gtcttgatg ttgtgtgtat cgagaggcca 300  
aaggctggtg gcaagtgcac ggggcacaag cggagtctgt cctgtgacgc gcaagtctta 360  
aggtctggcc gnnggccggc tgggtctggg catttntggg tgcaccgcgg ngctttccag 420  
accaacatgt aaccggcatg ntt 443

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tctgtgctg 129

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<400> 521

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<212> DNA

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 aaaattaaat gngganttca ctttgagtt gctgctgtnc aacgnacatt actcaatctt 180  
 tatgtncggc attctatgct ctactgggga aatttgggta ggagtgangt atttngtata 240  
 catatctnca tttaataatg gcaatngctg ggtctatctt actattttan ctattggata 300  
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ataaaaactga aaacagacta tcttta

146

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cagccaaggt tgcggggggc gcagagccgg acgaagacgg agggcggagc ggcttcggga 180
ctgcggagac tacacaccga gcgagcgcct gggcccgaag gagcgatgct gtggttccag 240
ggcgccattc cggccgccat cgcgacggcc aaaaagancg gcgcgtcttc gttgtgttcg 300
tggcagtgat gatgaacant ctacacagnt ggcttcaagt tnggaa 346
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cgagaagacc ctatggagct ttaattttatt aatgcaaaca gtacctaaaca aaccacacagg 120  
tcctaaacta ccaaacctgc attaaaaatt tcggttgggg cgacctcgga gcagaaccca 180  
gcctccganc antacatgct aanacttcac cagtcaaagc gaactactat actcgattga 240  
tccaataact tgaccaacgg aacaagttac cctngggata acagcgcaat cctattctan 300  
agtccatata aacaataggg ttacgacct cgatnttgga tcatgacatc ccgatggtgc 360  
agccgctatt aaaggttcgt ntgttcaaca attaaagtcc tacgtgatct gagtnacanac 420  
cggantnatc caagtcggtt tctatctact tcaaattcct ccctgttcga 470

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ctgncaaaaag agtctnaagg nacagcttcc acccatggag tggaagactt ccttctgggg 180  
tggtcttgtg tgtagggnc tctgctgggt ccacaaaatn gcttcatctg cttaaaattt 240  
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aatatttgtg nggttttttt ccacagttaa aaatgaaatt atgcagaaaa ttttccccac 180
aacatgacag ngaaaggaat tctgggacac gttttttccc agtcccatta ttttcacagg 240
gatcggctgg aatacagggt caaaggatct ctttgccaga atgtgccaaa ntngntgaaa 300
aaggtaactg tttatcnctg atn                                     323
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tgtaaaagga tgctcttatg ttctatataa gcctcatggg aagaataaaa cagcaggaga 180  
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ctgtgatgag gacccaaag 79

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<222> (221)



<223> n equals a,t,g, or c

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<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<400> 531

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acacaaatga tggattttaga attggcaatg ntgcgtcaaa accatgggtt atcatcatat 120  
gactnaggag gagnggtttg aagttgatca gctccagggt ttgtgaaaat tcantccgca 180  
atggtaactt tcaggtncct nggaactgca gctggaggag ngnctnctng gccctt 236

<210> 532

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

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<220>

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<222> (20)

<223> n equals a,t,g, or c

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<222> (66)

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<222> (81)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

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<222> (181)

<223> n equals a,t,g, or c

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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (332)  
 <223> n equals a,t,g, or c

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 tttttntgtg tgnagtttt natagtatcc atattttaat nactgtttnt tacttccatg 120  
 aaattttaaa aatctgaagg gnaaatgttt tgtgaaacat ttattttttt aaaggaaaag 180  
 ntgaaaaggca ggcctatttc atcacaggac cacacacatn tncncggntt agggcatnca 240  
 nactcaatgg ctttntttgt gaaatttggt tgtttttttna atttnttnt gntcaaatgg 300  
 atgtggccaa aaacctttta nctgggttgg cntgggaaat t 341

<210> 533

<211> 208

<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (143)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (163)  
<223> n equals a,t,g, or c

<220>  
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<222> (171)  
<223> n equals a,t,g, or c

<220>  
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<222> (190)

<223> n equals a,t,g, or c

<220>

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<222> (192)

<223> n equals a,t,g, or c

<400> 533

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ccatgggctg anacctgacg gtgaaagatg ctggcgggca acnaattcca ggtgtccctg 120
aagncagctg ccatgtgggt gtnaaagctg aaggcgcgag ntncacccag naagatcggg 180
gtgcacgctn tnttagccag gcgtttgg 208
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<210> 534

<211> 252

<212> DNA

<213> Homo sapiens

<220>

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<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

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<222> (240)

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<220>

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<222> (246)

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<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<400> 534

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ttagaaaagtt tcaacagggg gctgctggca acatgaaagg natgatggga attcaatgaa 120
tatgtgaaag gaaaatgccc ttgaatatga anctgaactg canttgaaat gacctgaatt 180
tgccctgagaa cctgcagcgt ttccccttcc tttttgccga aattgggcgg ggaaagtgtg 240
attttnnctn ng 252
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<210> 535

<211> 380

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

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<222> (95)  
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<220>  
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<222> (98)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

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<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (205)  
<223> n equals a,t,g, or c

<220>  
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<222> (213)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (232)

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<222> (256)

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<221> misc feature

<222> (302)

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<222> (307)

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<220>

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<222> (309)

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<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

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<220>

<221> misc feature

<222> (326)

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<220>

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<222> (328)

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<220>

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<222> (331)

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<220>  
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<222> (343)  
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<220>  
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<222> (344)  
<223> n equals a,t,g, or c

<220>  
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<222> (346)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (350)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<400> 535  
nnttcggcan nggggggttta aaactttgct gcttttttac ataaangact gtgcctttcc 60  
tagagagtta agatgtaaat gtgttctcac atgtnaantt tgagagttca ggggtctatt 120  
atggaatgat acacnttttt aatgaacctt aaaatanttc actaagntgt ttgccttcca 180  
nagtgtttac ccttaagcct taacntgtat ctncnttcag aaaaccgtta tnttggtcaa 240  
accatagtag gaaganaaac ctttatttgg gatataacac tactgtaagt tatgttacag 300  
angctananc canccnctg tggtananta nangagccaa aannancaan agaaaaaagg 360  
ggaaaagaaa aactaatang 380

<210> 536  
<211> 91  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>

<221> misc feature  
<222> (34)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (39)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (55)  
<223> n equals a,t,g, or c

<220>  
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<222> (68)  
<223> n equals a,t,g, or c

<400> 536  
ggcacgaggt ctctngaaca cgctgcgggg ctncgggnc tgagccaggt ctgtntcca 60  
cgcaggtntt ctgcgcgccc cgttcagcca t 91

<210> 537  
<211> 316  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (164)  
<223> n equals a,t,g, or c

<220>  
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<222> (232)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (277)  
<223> n equals a,t,g, or c

<220>  
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<222> (288)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 537

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atTTTTaaac atctgataaa acttaagctt ctttttcaga tgTTTaaatt ttatcatcct 120
TTTTTTTctc atgaattctt aaaggattat gctTTaatgc tgnatctat cttattgttc 180
ttgaaaatac ctggcatttt ttggatatcat gttcaaccaa catcattatg anattaatta 240
gattcccatg gccataaaaa tggcttTaaa agaatanata tatattTntn aagtagctga 300
gaagcaaatg ggcngt 316
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<210> 538

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

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<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

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<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

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<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (306)  
<223> n equals a,t,g, or c

<220>  
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<222> (335)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (352)  
<223> n equals a,t,g, or c

<220>  
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<222> (354)  
<223> n equals a,t,g, or c

<400> 538  
ggaaanctgg ncnccntcag gtaccggtcc ngaattccgg gtcgaccac gcgtccgtgc 60  
tgatcccat cgctgtgggt ggtgccctgg cggggctggt cctcatcgtc ctcacgcct 120  
acctcgtcgg caggaagagg agtcacgcag gctaccagac tatctagcct ggtgcacgca 180  
ggcacagcag ctgcaggggc ctctgttctt ttctctgggc ttagggtcct gtcgaaggga 240  
gggcacactt tctggcaaac gtttctcaaa tntgggtcat ccaatgtgaa gttccatctt 300  
ggnaancatt tgactatgca caacagatta attancgaaa tggacggtgt tnantttggc 360  
taaattgggtt aaat 374

<210> 539  
<211> 109  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (46)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<400> 539

gtgggattnc tgtgcaggag ggtcgtggtc tggctgtggc ggaggnncat aagaaggtaa 60  
cncgacctgg cgcggcagac anggctcgaa gacctcatct ttattaana 109

<210> 540

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

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<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

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<222> (393)

<223> n equals a,t,g, or c

<400> 540

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tgtggcggcc aagcgttcat agcgacgtcg ctttttgatc cttcgatgc ggctcttcct 120
atcattgtga agcagaattc accaagcgtt ggattgttca cccactaata gggaacgtga 180
gctgggggtt agaccgtcgt gagacaggtt agttttaccc tactgatgat gtgttggtgc 240
catggtaatc ctgctcagta cgagaggnac cgcagttcag acattggtgt atgtgctggg 300
ctgaggagcc aatggggcga aactacccat ctgtggggan tatgactgaa cgncttctaa 360
gtcagnatcc cgcccaagcg gaaacgatan ggnagc 396
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<210> 541

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<400> 541

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ttgggtttta agcaggaggt gtcagaaaag ttaccacagg gataactggc ttgtggcggc 60
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caagcggttca tagcgacgtc gctgtttgat ccttcgatgt cggctcttcc tatcattgtg 120  
aagcagaatt caccaagcgt tggattgttc acccactaat agggaacgtg agctggggtt 180  
agaccgtcgt gagacaggtt agttttaccc tactgatgat gtgttggtgc catggtaatc 240  
ctgctcagta cgagaggaaac cgcagttcag acatttggtg tatgtgcttg gctgaggagc 300  
caatggggcg aacnaccatc tgtgggatta tgactgaacg cctctaagtc agnatcccg 360  
ccaggcggaac cgatacggcc ancgccgcgg agcctcggtt ggcctcggat agancgggnc 420  
cccgctgt 429

<210> 542

<211> 617

<212> DNA

<213> Homo sapiens

<220>

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<222> (11)

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<220>

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<222> (18)

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<220>

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<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (552)

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<220>

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<222> (588)

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<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 542

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ccacgcgtcc gagtttccct caggatagct ggcgtctctg cagacccgac gcacccccgc 120
cacgcagttt tatccggtaa agcgaatgat tagaggctctt ggggccgaaa cgatctcaac 180
ctattctcaa acttttaaatg ggtaagaagc ccggctcgct ggcgtggagc cgggcgtgga 240
atgcgagtg ctagtggggc acttttggt agcagaactg gcgctgcggg atgaaccgaa 300
cgccgggtta aggcgcccga tgccgacgct catcagaccc cagaaaaggt gttggttgat 360
atagacagca ggacggtggc catggaagtc ggaatccgct aaggagtgtg taacaactca 420
cctgccgaat caactagccc tgaaaatgga tggcgctgga gcgtcggggc catacccgcc 480
cgtcgccggc agtcgagagt ggacgggagc ggcgggggcg gcgcgcgcgc gcgccgtgtt 540
ggtgttcgcc gncctccag tgggcaagcg ccccaacccc cttccttntt ggttcctctt 600
nccccaatng gnaacaa 617
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<210> 543

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>



<221> misc feature  
<222> (281)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (282)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
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<222> (299)  
<223> n equals a,t,g, or c

<400> 543  
acccacgcgt ccgaaatact taaaatgagg aataagaatg gagatgttac atctggtaga 60  
tgtacattgc taccagatta tggatggact gatctgaaaa tcaacctcaa ctcaaggggtg 120  
gtcagctcaa tggnnacag agcacgggct tttggnttct ttgcagtact ttgaatttat 180  
ttttctacct atatatgttt tatatgctgc tgggtgctcca ttaaagtttt actctgtgtt 240  
gcaaaaaaaaa aaaaaaaaaa aaaaaaaag gggggccccc nntaaggggc ccnantttng 300  
ga 302

<210> 544  
<211> 534  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (99)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (141)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (142)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (174)  
<223> n equals a,t,g, or c

<220>  
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<222> (252)  
<223> n equals a,t,g, or c

<220>  
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<222> (281)  
<223> n equals a,t,g, or c

<220>  
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gaaaccaaac gagctacctt nnagaacgct aaaagagcac acccgtctat gttngccaaa 180  
tagtggaataa aatttatagg ttgaaggcga acaaacctac cgacctggta atactggttt 240  
gttccaaaat anatcttaat ttccactttt aattttgccc ncnaaacccn ctaatncccc 300  
tttttaattt actgttnngn tcccaanaag gnaacnncnt ttgggacnct tngaaaaacc 360  
ttttttaaaa aaattttaaa ttntncccc ttntgggggc cctaaacccc ccccttttna 420  
aaaggntttt tcaccncccc ccccccccg aaaccccccc nttttttttt ccccccccc 480  
ctnggaccct ttccccnaa aaaaattttt ttttttttta aaaaccccc cccc 534

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aactactctt caagtgggtg cncagtccca gcanggcagt ccgcctctcc ccctgctgag 120
actttaatct ccaccagccc ttaaagtgtc ggccgctctg tgactggant tatgctcttt 180
tgaaatgtca caaggccgcc tcccatctct ggggggtattg ttacaaattc ttcctctccc 240
tgaaatngcc tttcctgctt tcctccgtgg gtaagttna ncaaatttcc tctagcttnc 300
ctggaaggaa tcactcccc caaggaaacc tccttncct tttcctgggg tgtn 355
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<211> 269

<212> DNA

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<222> (252)

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<220>

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<222> (267)

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<222> (268)

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<400> 546

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ggattcttct cactagtctt aacaaaatct gtgatgttaa atgactgatg ctctcaattg 120
tgatccagag ttttaaataa atgaaatcaa ggtgggattt tgggaatata tcctgaantt 180
taacatcttg atgttccttc ttgtttgtta aaaaaaaaaa aaaaaactcg angggggggc 240
cggtacccaa tnccccctaa tagtgannc 269
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<211> 82

<212> DNA

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<222> (63)

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<400> 547

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atnccggccc tgatggtcac gg 82

<210> 548

<211> 362

<212> DNA

<213> Homo sapiens

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<222> (338)

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<400> 548  
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gtatttagtc tccattgtct tgcattggga ttgagaaga aaatcagaga gggaagatct 120  
ggtatttcct ggcctaaatt ccccttgggg aggacagga gatgctgcag ttccaaaaga 180  
gaaggtttct tccagagtca tctacctgag tcctgaagct ccctgtcctg aaagccacag 240  
acaatatggg cccaataaac cgaatgcacc ttctgtgctt ccantctctt ccttgaaatt 300  
caagggtctt nccgtttccc cattcccccc caggccantc caanttattc caaacctgn 360  
tt 362

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tgagggtgggt ctacctcatc tctgaaaatt ctggaaggaa tggaggagtc tcaacatgtg 120  
tttctgacac aagatccgtg gtttgtactc aaagccana atccccaagt gcctgctttt 180  
gatgatgtct acagaaaatg ctggctgact gaacacattt gcccaattcc aggtgtgcnc 240  
agaaaaccga naatattcna aattcccaat ttttttctta ngancaagaa aaaaatgtng 300  
ncctaaaagg ggttaattna aggggttagg gggttatgaaa gancttgatt tggatctctt 360  
tttatttttaa tttnaatttc acttttgaca tccaanaaaa actttgttga aatacttctg 420

ttctcaatgt ttgganaaa aatcanc

448

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<212> DNA

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cgcaatagat atagtaccgc aaggagaaga tgaaaaatta taaccaagca taatatagca 120  
aggacttaac ccctatacct tctggcataa tgnaattnaa ctaggaaatg aactttgcaa 180  
gggggagcca aagcttaaga ccccgnaaa ccagacggag cttacctta ggaacagctt 240  
aaaagaggca caccgcgtct atgtaggcaa aatagtgggg aagggttttt aggttngagg 300  
cggaccaaac cttaccgngg cctggtngnt agcttggttg tnccaggtta ggatctttta 360  
gtttccaact ttaaattttg ncccacagga acccttttta atccccttgt tnaattttaa 420  
ccgtttngtc ccagggggg accagttttt tggccattgg ggnaaaacct tttggggggg 480  
gttaaaaatt ttnccccct gg 502

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aaaaaggaaa ttaagagaag gtagaaattt aaatntttta atgaaaataa tgctttnaat 60  
cattaaaaca ggatatgaat actccaatcc tttttaanat tatnacngtt ttcaaaatt 119

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<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
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aaccaagcat aatatagcaa ggactaacc ctataccttc tgcataatga attaactaga 120  
aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc tacctaagaa 180  
acagctaaaa gagcacacc gtctatgtng caaaatagtg ggaagattta taggttgagg 240  
cgacaaaacct accgagcctg gtgatagctg gttgtccaag ataaatctta gttcaacttt 300  
aatttgccca cagaacctct aatccccttg ttaatttact gtttgtccaa agaagancac 360  
tctttggacn ctnggaaanc cttgtaaana aattaa 396

<210> 553  
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<212> DNA  
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<400> 553

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acaaaaaaga aaaggaacaa agccaagaaa ggacanagan gaaatgcttt gggaccagtc 120  
tattcttggga ttttgaactt tcaaattggt tctcccaagt taaattgaaa aatagtgaga 180  
cttggtttta tgaatcgtgt tcntacactt tcttantnat nggtcctttn ctcctaccaa 240  
ggctattaac aat 253

<210> 554

<211> 431

<212> DNA

<213> Homo sapiens

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<222> (306)

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<222> (354)

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<222> (383)

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<222> (399)

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<222> (430)

<223> n equals a,t,g, or c

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gtataggcga tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacaccctgc tatgttngca aaatagtggg aaaaatttat 300
aggttngaag cgacaaacct acgagcctgg tgatactggg tgttcccaga atanaatctt 360
agtttcactt ttaattttgg ccncagaacc ccctnaatnc ccttggttaa tttactnttt 420
agttccaaan a 431
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<210> 555

<211> 489

<212> DNA

<213> Homo sapiens

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<222> (164)

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<222> (179)

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<222> (198)

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cttaccacat acatctctct ctteggatat gagctgnaaa ctcccttatnt cancgctcta 120  
actctgnagt cctaattntt ctagtgtggac caaaaaaaat ccnnattgtt tgatctaang 180  
agangnaatt taccaatnct gtatacgcat gtgtgtgtgt cgcttaaacg anctgtccgg 240  
ttatanaaaa tcctgatcgt cataaatcat gtctanacat catgtaatga attgcacgat 300  
ttaatatgtt ccctattagc antcactaca anctatttct caaatntacn tatttctccg 360  
taaacaanca ttcagtactc cntcggatct ctaaaaatcc tctatgatct ntncacatca 420  
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aaagcnanc 489

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<211> 77  
<212> DNA  
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<220>  
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ggaaaatatt atncagtaaa caatantgtg tgaactttta aaatggataa tagggcatgg 60  
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<211> 506

<212> DNA

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gcgatagaaa ttgaaacctg gcgcaataga tatagtaccg cagggaaaaga tgaaaaatta 120

taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180  
aaataacttt gcaaggagag ccaaagctaa gaccccgaa nccagacnag ctaccttaga 240  
acagcttaaa gagcacaccc gtctatgttn caaaatagtg ggaaanattt atnngttgaa 300  
gcgacaaacc taccgacctg gtgatactgg ttntccaana tanatcttan ttcactttaa 360  
tttgccacng aacctcttaa tcccttgta atttactgtt antccaaaaa agacactctt 420  
tggacctagg aaaaaacctt tttaaaaaat taaaaattta caccnntttt nggctaaaaan 480  
cngcccccac tttaaaaaag nttcaa 506

<210> 558

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cacanaagaa agtcaaggct ggaatttcat tctcttatct aaatctctct gttctctctc 120  
aggggaatatt ttcagagaat aggtggaatn aagtgaggct gtgganaatg ttatctataa 180  
taggatagac tttcttctgt gcacctgatg ggagggtaat gtctaatagt ttatcagtaa 240  
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<210> 559

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ggataaatac tgtcantcca ttgatttata tcctcctgtc ccccatctna aatacccatg 120  
ctgcttttct gagtggtgat ggggggtacc atcttgatcc actgttgctc ttagaangcc 180  
canaanntct ttgggcattg ncaaggaaat cccggattat ctggaaaacc ctcnctttct 240  
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<210> 560

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<222> (341)

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<400> 560

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agtgccaggt ggggagtttg actggggcgg tacacctgtc aaacggtaac gcangtgtcc 120
taaggcnagc tcagggagga cagaaacctc ccgtggagca naagggcaaa agctcgcttg 180
atcttgattt tcagtacgaa tacaagaccg tgaaagcggg gcctcacgat ccttctgacc 240
ttttgggttt taagcaggag gtgtnagaaa agttaccaca gggataactg gcttgtggng 300
gccaagcgta natagcgacg tcctttttga tccttcgatg ncggctcttn ctatcattgn 360
gaagcataat t 371
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taccacnact ctgatcggtt ttctactgac ccggtgaggg gggggggcga gcccgcaggg 120  
gctctcgctt ctggcgccaa gcgcccggcc gcgcgccggc cgggcgcgac ccgctccggg 180  
gacagngcca ggnggggagn nngac 205

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ccacgcgtcc gcccatTTTT cgggttgata atgcaataga taatgggnaa gaanttcaag 120  
ttgcattgcc natcttaatg gcagcttatg caatggcgga agcgtttatg tcaacaggag 180  
ttggagcttc tcttatccta attgcattaa aagtaggaat tactgctaaa actgttgcag 240  
ttataggagc tattgtcaca tcaatattat caatagcaac tgggacaagt tggggaacat 300  
ttgcagcctg tgcacctatt tttttatggc taaatcata agttggcgga aatattttat 360  
ttgacaacaa gcagctattg cangangagc atgttttgga agataatata ggactatttc 420  
agatactaca atagtaaagt ctggtatnca aaaaagtttg aaagttgtaa gaaagaattn 480  
gacacccaag gtggtatggg caagcattag ntttnataat tcaaggaatt aataggcatt 540  
tncttaatgg gtgggattta ncaatgggna ttttaaccctt 580

<210> 563  
<211> 198  
<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

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ctcccgcgag tcccggncc ctcccgccc nctatactcg gcgcgcgcgc agcatggcgc 120  
ccccgcaggn cntcacgttc gggcttctga ttgccgcggc gaacgcgact ttngccgcag 180  
ctcaggaaga atggagna 198

<210> 564  
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<212> DNA  
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tggcctgctn ccttctaagt attcttaaag ccatggattt ttgnggacca ttttcttctg 120  
ntcttccttg agntatttnc tttntttgct atcttgggac tcttctttgt gcttga 176

<210> 565  
<211> 264  
<212> DNA  
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<223> n equals a,t,g, or c

<220>  
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aataatttaa caagctcagc tctgctttat ctgagtttag tggctccta atatatgtag 120  
agaaagatgg tgggggtgnt cacctctgta cagaccatct gtatgttagg tgacattgat 180  
tatgggttat aatcaggga actaattgga tttagtgaca aaaataaaaa gttttttttt 240  
tatganaaaa aannnanggg ggac 264

<210> 566  
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<212> DNA  
<213> Homo sapiens

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<220>  
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<222> (387)  
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<222> (393)  
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cgctccatgt tcatgctcag atggcagaga atgaanaaga nggtagtggn ggcggaggca 120  
gtgaagagga tccccctgc anacaccaa gctgtgaaca gaaagactgc ctggccanca 180  
aaccttgga catcagcctg gccancctg aaagcatccg cagtgccta gagagttctt 240  
gatgcacagt ctgacgatgt gccagacatc accttcagaa tgaaatgtgg nttcnccgc 300  
tcccatactg cagcctgccc ctgcacccc agagnccaag gtgcaccgag cccaagtgcc 360  
catatgaacc tctctgccct anccnangga canactgtct tgaagccaga a 411

<210> 567  
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<212> DNA  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (206)  
<223> n equals a,t,g, or c

<400> 567  
ggggaaaggg acctttccga aaaacatntt ttggggaaat aaaaatgtgg actgtgaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
nggggggcct tttnaaaaaa nnaaantt 208

<210> 568  
<211> 322  
<212> DNA  
<213> Homo sapiens

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<222> (291)  
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tatacccata aactgcagtt ggaagtcagc tttttgaaat gtccagcctt tgcccaattg 120  
tttcagatca tctcattcct caggctttgg caggtatcct gccctccatc ttattccagt 180  
gtgttcacct natcaaggca gcanagtggg tgaaggagta agtctgccct ttgccatact 240  
gaacagctgt ggaccccgat tgggtgagggc tctgcatatg cctgtatgaa ngagatacan 300  
gtgtgngtgc acatgccggn nt 322

<210> 569  
<211> 594  
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<223> n equals a,t,g, or c

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gagagaaagt ccagtgggga gtgtttgttc cagagatgt ccctgaatcc ttcacctcag 180  
aagcttacca gtggctaaat agatcccagt ttacttcct aacaaaatca cagagtttat 240  
tgacattcag tacaaagtct ccagaagaaa aactcacacc aacanagcaa acagctgcta 300  
gcagaagaaa gtcttccac aacccattt tatttcatat tgggaaaaca caggcaacag 360  
caggatgaaa aactaaacga aactttagag aatgagctgg tacaactacc cttaacagaa 420  
aacatacccg caattagtga gcttcttcac actccacca tgctctgcca tctgtgctt 480  
tcctgtntct catgtttgna aattcattgc tgctgtctaa aggagactaa gaagtgctaa 540  
ngaaattcct gaaaaatgta gatatgggaa gaagnaaaac ggaaagtnaa natt 594

<210> 570  
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<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<400> 570  
gcggacgcgt gggaaataat tgcattaaaa tacaaaaggt gatagggaag aattaaaaga 60  
tttgcagtat tgtacacaaa agctaataat tttgtgtact ttttatttat tttggagggt 120  
ttatatgata ttcaattgag tattaaataa ttgcctaga ttaagcctaa aatgatgacc 180  
agctaattaa agaagatatt ttgaatctgg ttctgagcta aagttgagta aattcttagc 240  
taagaaaaaa ttggaaatcc atcatctata ttanacaacag attctnanan taaattggta 300  
acttntatga 310

<210> 571  
<211> 109  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (64)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
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<222> (97)  
<223> n equals a,t,g, or c

<220>  
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<222> (108)  
<223> n equals a,t,g, or c

<400> 571  
gggcgggttc ggtagtgga ccgggaccgg taggggtgct gttganatta tggttgaccc 60

ctancccccgg taccctgaat gatagatcga gganganntta actatagna

109

&lt;210&gt; 572

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (295)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (322)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (374)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (392)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (399)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (419)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (420)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 572

gtgtattttta caattttttt aaaggaaaat ttaaaatatg aaatgtttgt tttgtcttaa 60  
cagggtatcc cttctccctc cctgtgcagc cttccttcct tctttgaaag gagaagtcac 120  
acgttaagta gatctacaac tcatttgata tgaagcgta ccaaaatcct aaattataga 180  
aatgtataga cacctcatat tcaaataaga aactgactta aatgggtactt gtaattagca 240  
cttggtgaaa gctggaagga agataaataa cactaaacta tgctatttga ttttncttct 300  
tgaaagagta aggtttacct gntacatttt caagttaatt catgtaaaaa atgatatgta 360  
ttttgatgta attnatctct tgatcgaatc tngcattcna aaggccaata atttaaagnn 420  
ggctatcaa

429

<210> 573  
<211> 202  
<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (173)  
<223> n equals a,t,g, or c

<220>  
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<222> (189)  
<223> n equals a,t,g, or c

<220>  
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<222> (194)  
<223> n equals a,t,g, or c

<400> 573  
gggctggggc tgaccgagga ggtggagggt ggnagaggct ggggntgata aatctattga 60  
ttgattgtga tagtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaaaaanaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaana aatntaatat gc 202

<210> 574  
<211> 229  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (191)  
<223> n equals a,t,g, or c

<220>  
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<222> (220)  
<223> n equals a,t,g, or c

<400> 574  
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acattgtgtc antggacatt tttaaaaact gtgattttta ataatgtcca atgactgcaa 120  
gtcggccttg attttcactt gcaaaggnta cagctgcatt gtnaggctct cnagccctgc 180  
agagagctcc ntccactggg tagcagtgtg ttgtgttttn cattcattt 229

<210> 575  
<211> 260  
<212> DNA  
<213> Homo sapiens



<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<220>  
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<222> (217)  
<223> n equals a,t,g, or c

<220>  
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<222> (250)  
<223> n equals a,t,g, or c

<220>  
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<222> (257)  
<223> n equals a,t,g, or c

<400> 575  
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gttcttggtg ctgatgttgg tgaaggtgtg cgcggggatc agtaaaagct taaagaaggt 120  
tttcacaggt cactgggctg tggtagaga aggcctcacg aacccttgga ttccggataa 180  
ctggtcttgg ggcggngtgg cttctgaaca ctgcnantgc taccgagttc tacactgaaa 240  
aggactggan caagaangac 260

<210> 576  
<211> 263  
<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (212)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 576

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cagcagatag cagtgtacag aaagcaaaaa aggaactgta tgtgaggcac ttgtttctgt 120
taatatccat attcctgtta acacacaccc tttctcatgt aaaaagaaaa ataaataaat 180
ggtctgaact ttgaaaactt tgtgctgnta ancatagatt ttggagacaa atnaatagat 240
gctatgctgt ntcantttca tag 263
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<210> 577

<211> 366

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (297)

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<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 577

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gaggaaacac tgtctatgat aggatttcca aaagtatttg tggacagtta aatgctaatt 60
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aatatacatc tgtagttatt ctacattttc ttgaaatttg ggaggttaat accaagtatt 120  
catttcacga tgtaaagaaa ctgaacagtg aagtggcttg attgcttaaa ctattgactt 180  
ggtaagtcta ctgtatataa catctaatat atatattaca ggccaaatga actaaacatt 240  
gccttgctat attcaccaaaa aggacttaat tcttggtttt ttcccagttt tatatanagg 300  
aaacactatg ataggatttc ctaaagtatt tgtggacagt taaatgctaa ttatatacat 360  
ntggnnn 366

<210> 578

<211> 595

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (5)

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<220>

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<222> (14)

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<222> (158)

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<222> (212)

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<220>

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<222> (419)

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<222> (565)  
<223> n equals a,t,g, or c

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<222> (570)  
<223> n equals a,t,g, or c

<220>  
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<222> (572)  
<223> n equals a,t,g, or c

<220>  
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<222> (576)  
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<400> 578  
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aaggaccagg gaggtgagta ctgagggcca gggaagagga gtaggggtgt ctcaggggtga 120  
tctctggccc accgccttgg ccccttctcc caggctctnac ccaggcacag tacattgact 180  
gcttccagaa gatcaagtac agcttcaacc tncgtgtagg tggtcccca caagttcacc 240  
aggcctctcc tcttcccctt cctccccagt aatcctctgc tgtctggact caaccatccc 300  
aagccttttt ctcttctatc tactccccct agaacctccc ctccctctt gggacttttg 360  
ggaagtgccca gccttncagc caaggcataa aacaattatg gtgacctggt gaanatggng 420  
tggtgtgaag ggtggtgaca ggcattgctc tttgtcccca agggaaaggc tggcccacct 480  
ggnttgaagg agacaagtgc cccctgagct cgtacacatt cctctttaag tcccttgaac 540  
tttcgtgaag ttaagggacg acannggtgn tnaaanacgg acaggcttga agtca 595

<210> 579  
<211> 132  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

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<220>

<221> misc feature

<222> (64)

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<220>

<221> misc feature

<222> (77)

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<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<400> 579

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attnttcagg gttgaganana tgaactaata ctggtgaaaa ttacctaan acctnggta 120
tcaaaaacat ct 132
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<210> 580

<211> 558

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

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<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (370)  
<223> n equals a,t,g, or c

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<222> (547)  
<223> n equals a,t,g, or c

<220>  
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<222> (553)  
<223> n equals a,t,g, or c

<400> 580  
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actagtggat ccaaagaatt cggcacgagg ccgcgttgac cactggcgtc tcgctggtgg 120  
tcttcgagac cggcgttggt tgaaaatcgc ccccggtttt ggccgtggcc gcgggtgaga 180  
ttcggcgccc agagcccccg ggggcctcag ctcaccgcgc gctgcccacat gtgcgncggt 240  
gaaaccaggg ccccgacagg cgctgccgnc ttcccccccg ggtgcggttc gttcgcgagg 300  
tgttggcccc tgattccttg accccgattg cagaccctta accttgttct ttnttccgca 360  
gacaatggtg cttncaccac gctgtacaac cgacggtcgg ccaaggaccn nggggttttg 420  
gggggaantt tggtttttcc caaggttttt caaattaaag ttgtttttgt tttaaaaaaa 480  
aaaaaaaaaa aaaaattggg ggggtanttt ttgggggggg cccgggggnc ccatggtttt 540  
ttncaanccg ggnnggggt 558

<210> 581  
<211> 120  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (62)  
<223> n equals a,t,g, or c

<220>  
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<222> (65)  
<223> n equals a,t,g, or c

<220>  
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<222> (70)  
<223> n equals a,t,g, or c

<220>  
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<222> (99)  
<223> n equals a,t,g, or c

<220>  
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<222> (103)  
<223> n equals a,t,g, or c

<400> 581  
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tncnttggn ctaattcgca ctttcctcac gaggaaatna aantaggga aaaaccaaac 120

<210> 582  
<211> 260  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (245)  
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<220>  
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<222> (259)  
<223> n equals a,t,g, or c

<220>



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<223> n equals a,t,g, or c

<400> 582  
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actgtctgta ttattattca cctataatta gtcattatga atgctttaa gctgtacttg 120  
catttcaaag cttattaaga tataaatgga gattttaaag tagaaataaa tatgtattcc 180  
atgtttttaa aaaaaaaaaa aaaaaaaaaa nccccggggg gggccccggt cccatttgn 240  
cccantgggg ggccgtttnn 260

<210> 583  
<211> 469  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (423)  
<223> n equals a,t,g, or c

<220>  
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<222> (460)  
<223> n equals a,t,g, or c

<400> 583  
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cctgcgggccc gccggtgaaa taccactact ctgatcgttt tttcactgac ccggtgaggc 120  
gggggggcca gccccgaggg gctctcgctt ctggcgccaa gngcccggcc gcgcgccggc 180  
cgggcgcgac ccgctccggg gacagtcca ggtggggagt ttgactgggg cggtacacct 240  
gtcaaacggt aacgcaggtg tcctaaggcg agctcaggga ggacagaaac ctcccgtgga 300  
gcagaagggc aaaagctcgc ttgatcttga ttttcagtac gaatacagac cgtgaaagcg 360  
gggcctcacg atccttctga ccttttgggt tttaagcagg aggtgtcaga aaagttacca 420  
canggataac tggcttgtgg cggccaaacg ttatagcgan gtcgctttt 469

<210> 584  
<211> 361  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (253)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<400> 584  
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gaaccgcagt tcagacattt ggtgtatgtg cttggctgag gagccaatgg ggcgaactac 120  
catctgtggg attatgactg aacgcctcta agtcagaatc ccgcccaggc ggaacgatac 180  
ggcagcgccg cggagcctcg gttggcctcg gatagccggt cccccgcctg tccccgcccg 240  
cgggcccgcc ccncctccac gcgcncgcgc cgcgcgggag ggcgcgtgcc ccgcccgcgc 300  
ccgggaccgg ggtccggtgc ggagtgcct tcgtcctggg aaacggggcg cggccgga 360  
g 361

<210> 585  
<211> 482  
<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (148)  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (380)  
<223> n equals a,t,g, or c

<220>  
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<222> (405)  
<223> n equals a,t,g, or c

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<220>  
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<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<400> 585

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gcgacctcgg agcagaaccc aacctccgag cagtacatgc taagacttca ccagtcaaag 120
cgaactacta tactcaattg atccaatnac ttgaccaacg gaacnagtna ccctanggat 180
aacagcgcaa tcctattcta tantccntat caacaatagg gttnacgacc tcgatnttgg 240
atcaggacat cccgatgggtg cagccgctat aaaangttcg tttgttcaac cattaaagtc 300
ctacgtgatc tgaattcana ccggagtaat ccaggtcggt ttctatctac ttcaaattcc 360
tcnctgtacn acaggacatn aagatataag gcctacttct caaancgcct tccccgtaa 420
atgatntcat ctcaacttaa ntatnatacn cacaccctcc caataaaagg gtctgttggg 480
tt                                     482
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<210> 586

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<220>

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<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 586

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cgcgtccggc cctttccent tccccccccc cagcctcctt cccctcctcc cgcccacgcc 120
ccgctccccg cccccggagc ccgcgggacg ctacgccgcg acgagtagga gggccgctgc 180
ggtgagcctt gaagcctagg gcgcggggccc gggtaggagcc gccgcagggtg cagatcttgg 240
tggtagtagc aaatattcaa acgagaactt tgaaggccga agtggagaag ggttccatgt 300
gaacagcagt tgaacatggg tcagtcgggc ctgagagatg ggcgagcgcc gttccgaagg 360
gacggggcga ggcctccgtt gccctcggcc gatcgaaagg gagtcggggtt cagatccccg 420
aatccggagt ggcggagatg gcgcgngag gcgtcagngc ggnaacgcga ccgatccccn 480
agaagcccgg ng 492
```

<210> 587

<211> 248

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<400> 587

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ccacgcgtcc ggttaacaac aagaaaggtg taattagaat tgggatgtgg atatttactg 60
tatgnacaac acatttacag ttctgtaatg caaggatgca gtttaaaaat gtgaagtagt 120
gnanggtttt tgaaaataag ctttaaaata tagggatctt gaaaggcccc cgggggtact 180
attttataac ttagaataaa tgggnaatcn naactgtgtn tttggtaaat taatttttta 240
antatttt                                     248
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<210> 588

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (24)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (544)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (575)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (578)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (604)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<400> 588

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gaattcccg gtcgaccac gcgtccggg acgcgtggg actgcttaga aatatactg 120
aagtgatcac cacagccata aaattgttta agaaagattt atataatgtt tacaaatctg 180
gaatcaagga ttttagctga aatccttta gagatattag agcaagtatt taattcaggt 240
attttcaagt tttaaaactt aacctgttta cctactaaaa ataaaatagc tagttttttt 300
ctgcatataa aagttcattg aaatgatatg cccttatttg caatactttt ccataaaagt 360
tttaagtgtg aaagaattgt aatttactag atatgtttgg tatgggatat tttgttaggc 420
aagttttctt ttttcttctt aaattgcaat aggcttccaa aaagagtata attgnttcag 480
aacaatttaa ctcttgcat tatacgtctn ccttttctt tacagtatta gtaaaatgaa 540
aaantggaca cttctgatt taacttact aatgnaanta ctctctcaag gaagctttta 600
aaanttaaat taccatcaca caacntttt atagtaaggc aacatttggt ttn 653
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<210> 589

<211> 625

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>



<221> misc feature  
<222> (521)  
<223> n equals a,t,g, or c

<220>  
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<222> (522)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (525)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (560)  
<223> n equals a,t,g, or c

<220>  
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<222> (562)  
<223> n equals a,t,g, or c

<220>  
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<222> (563)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (603)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (618)  
<223> n equals a,t,g, or c

<400> 589  
gcngaaacct cccgtggagc agaagggcaa aagctcgctt gatcttgatt ttcagtacga 60  
atacagaccg tgaaagcggg gcctcacgat ccttctgacc ttttgggttt taagcaggag 120  
gtgtcagaaa agttaccaca gggataactg gcttgcggcg gccaaagcgtt catagcgacg 180  
tcgctttttg atccttcgat gtcggctctt cctatcattg tgaagcagaa ttcaccaagc 240  
gttggattgt tcacccacac gagccctgtg cttttgggtg aaataatgta caatttgtgg 300  
atgtcattga atctagagga ctttccccct tttatatattg tattaacttt aacttattaa 360  
aaanaaaaaa agaanaagaa aaacaattta taaaaaanan aaaaagcaac caacccaac 420  
aacaataaag aatggtttgg tattggagaa gggatggtca gttaagcctg ctggcacacg 480  
acggaatgga tctgggcccg gggaccactt tcatactacg nnctnatctt tggataccca 540  
gggaggggca accgtttcgn tnnngggctgt acccagaagg tggaacggag tttggacaga 600  
ctntccatta ggcgtggntc tttat 625

<210> 590  
<211> 365  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (177)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (264)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (341)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (346)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 590

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aagaacctct natecttgca tgccaggcac tctttcaatc acttcagtga ccatttttcc 120
aaaattctga aacatccaca cttagggttt tctttgaatt tgggggtgcc ctcccncac 180
ccggcagcct tctgtgtcag ggggntacgg tcttgatata gacaccattt ttgggaccta 240
ggggcagttt tgggattcta gctncagggg tacctgggtc ttaagggcaa ggtttgggan 300
ccggnacttt ttgcaaaacg tgggggcagt ttcaattttg nccctnaang aggccctaga 360
cgggga 365
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<210> 591

<211> 65

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 591

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gccctatagt gagtcgtatt acaattcact ggccgtcggt ttacaacntc gtnannngga 60
aaacc 65
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<210> 592

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (198)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (212)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (267)  
<223> n equals a,t,g, or c

<400> 592  
ggcagagngt gaaggctaga cccggttnac tggaattccc ctggcgatca aggggtccta 60  
gtacaccgca atcatgtcta taatgtccta taacgnaggg gccgtaatgg ccatgaaagg 120  
ggnaagnanc tntntggncc atcgctgcag anaggcgctt ngggaatcca ggcccagaat 180  
ggtgaaccac gggacttnca gaaagatctt tncccatggg ntgaaccggt tgtnaatggg 240  
tttgggccgg gnttgncaat taaggtnca 269

<210> 593  
<211> 307  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 593

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ggcagagnag cattctctaa ctctacccca ccctacaaaa tgcatatgga ggtaggctga 60
aaagaatgta atttttatct tctgaaatac agatttgagc tatcagacca acaaacccttc 120
cccttggaag agtgagcagc aacgtaaaaa cgtatgtgan agcctctctt gnaatttcta 180
gttagcaatc ttaaggctct ttaaggcttt ctccaatatt aaaaaatatt accaaagaag 240
tcctgctatg ttaaaaacaa acaacannaa acaaacanca gnaaaaaatt taaaaaaaaa 300
ancggggg                                     307
```

<210> 594

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (72)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (124)  
<223> n equals a,t,g, or c

<400> 594  
tatccacact gtcaaacagg ttggtgtggg ttcattggca ttctttgnaa tactgcttaa 60  
ttgctgatac cntatgaatg aaacatgggc tgnattact gcaatcactg tgcctatcgg 120  
canntaat 128

<210> 595  
<211> 598  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (214)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (306)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (367)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (426)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 595

gtggtttttg gctctttcag agaggtctca ggttctttcc atgcagactc ctcagatctg 60  
aacacagttt agtgctttac atgctgtgct ctttgaagag atttcaacaa gaatattgta 120  
tgttaaagca tcagagatgg taatctacag ctcacctctg aaggcaaata taagctggga 180  
aaaaagtttt gatgaaattc ttgaagttca tggngatcag tgcaattgac cttntncctc 240  
actcctgccca gntgaaaatg gattttttaa ttatactgna gctgatgaaa ctcttgattt 300  
tgnagntaat ttattaagtc tgggatgnag aacttcaaga agtaagagct aagttctaag 360  
ntcatgnttg gaaattaata cttnatattg ngctgggcta ttttganttt gggggggaat 420  
cagcantatt cttcagaagg ggacctggtt tcttcaaggg aaagaaacac tcttattcca 480  
aactacagaa taatggggta aacatgctaa ataggtctat aaggaaacca aatactggat 540  
tatctcggag gntattggtn anaaggcct tgggtaaaaa taagggtaaa nanaaagg 598

<210> 596

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (465)  
<223> n equals a,t,g, or c

<400> 596  
gaaaaaaaaat ncattgtaaa taacctcagc tgggatgagg agtgacagaa tatcaaaata 60  
atttgtggct gtggattttt ttaactgcta gtagtggaat actggaaaag cttcatttct 120  
gaagatgaat tttattttta aaaaatacat gcacactcaa aacttttagc tttgatcaca 180  
agtggaacaaa tttctgaaac caaaggcaac taagttgctg tgtagctct tgctggattt 240  
tgagcctagg tcctactgtc tgccagtact catgtgagtt gtatgtgccc ccagtgtctac 300  
atacgcaggt atgcgtaagt gtgtatgctt gttttaacaa aacactcaac gtacatatgt 360  
acataatcta cacatattta taccacatat ctacttttat tactatagac tatacgaatt 420  
ggnggtaaca tgaaatgnta ccttttacag actgttttta aaan 465

<210> 597  
<211> 320  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (98)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (105)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)

<223> n equals a,t,g, or c

<400> 597  
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ccaaaaagga ccaactggct tctgtgcact agcctgtnaa ttannttgct tagtatgggt 120  
ctnagatctt gnacagtata tttaaactg taaatatgnt tgtgccttaa aaggngagaa 180  
gaaagtntag atagttaaaa gactgcagct gctggaagtt ctgagccggg caagtngtgn 240  
ggggctgttg ggacacttnc ttgtggggcc cggggtaatc agggcagcct ttcatagggc 300  
ggggtccatg tgntggcant 320

<210> 598  
<211> 688  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (650)

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<222> (673)

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<400> 598

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aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag 300
gtagaggcga caaacctacc gagcctggtg atagctggtt gtncaagata gaatcttagt 360
tcaactttaa atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgttagtcc 420
aaagagggaac agctctttgg aactagga aaaccccttg tagagagagt naaaaattta 480
acaccccata gtaggcctaa aagcagncac caattaaaga aagcgttcaa gcttcaacac 540
ccacttccta aaaaattcca aacatataac tggaacttcc tnanacccaa ttgggaccaa 600
ttntcaccct ctattagaaa gaaactaatg gttagtntta angtaaccan tgaaaaacat 660
tttccttcc ggnattaaag ccctggcg                                     688
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<210> 599

<211> 748

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<220>

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<222> (613)

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<222> (657)

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<222> (707)

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<400> 599

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ccaagcataa tatagcaagg actaaccctt atacccttctg cataatgaat taactagaaa 180
taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
gctaaaagag cacaccgctc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgttagtcc aaagaggaac 420
agctccttgg acactaggaa aaaaccttgt agagagagta aaaaatttaa caccatagct 480
aggcctaaaa gcagccacca attaagaaag cgttcaagct caacacccac tacctaaaaa 540
atnccaaaca tataactgac tccttacacc caaattggac ccaatctatc acccctatag 600
aaagaactaa tgntagtatt aagtaaccat gaaaaacat tcttcctccg gattaanccc 660
tgcgtcagga ttaaaacccc tgaactggcc atttaacagg cccaatntct taccattcaa 720
cccaccnagg tcattattac ccttactt                                     748
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<211> 253

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<222> (85)

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<222> (91)

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<222> (94)

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<222> (193)

<223> n equals a,t,g, or c

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ctgccaggaa agggttgaac cgcgaacctt gacgaagggg gggcccggtt acccaattgc 180  
ggccctatag tgnagtngtg attnacaatt gcaactgggcc gtcggttttg acaagttcgt 240  
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<220>  
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gtccacgtcg ctacgagtca gcccatccat ccatggctac cacttcgaca cagcctctcg 120  
taagaaagcc gtgggcaaca tctttgaaaa cacagaccaa gaatcactag aaaggctctt 180  
cagaaactct ggagacaaga aagcagagga gagagccaag atcatttttg ccatagatca 240  
agatgtggag gagaaaacgc gtgccctgat ggccttgaan gaagaggaca aaagacaagc 300  
ttttccattt ctgaaactgc ggaanttttc cttcaaaantt cattgaagag aagagggttg 360  
ttaaggacgt tttccaggat tggacattca aagaccagtg ggtttttggg nttttacagt 420  
tgcagctttg tttttacctt acagtttttt tttttcaggt tccagggttg aagggcccg 480  
ttgaaaggcc cggnttacan ttgtttnaag gttcccacat tttt 524

<210> 602  
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<212> DNA  
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<220>  
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gccgcgcggg cgggctgagt gagcaagaca agacactcaa gaagagcgcg ctgcgccttg 120  
gtcccggcca ggcttgacag cagaggcggg cggcagacgg tgcccggcgg aatctcctga 180  
gtccgcgcgc ccagctctgg tgccagcgcc cagtggccgc cgcttcgaaa gtgactggtg 240  
cctcgcgcgc tcctcttcgg tgcgggacca tgaagtgcgt ccgtcgggtg tgctgaaact 300  
ctttctggnt tcattctctt cggcactggt tactggcgaa aancctgga acggctttcg 360  
ganaaggcta actgctggna acaagnaac cggaacc 397

<210> 603  
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<212> DNA  
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<210> 604  
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ggagccntag tccgctgcac ggagactgtg gtgtnggnct tgacgaggtg ggtcagtgaa 120  
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<211> 138

<212> DNA

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<222> (36)

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<210> 606

<211> 102

<212> DNA

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cagcagcccc gaggcaccac ncgcnaccg agtctcacc tc 102

<210> 607

<211> 80

<212> DNA

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naaaccaaatt tngccccnaa 80

<210> 608  
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<212> DNA  
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<222> (386)

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<222> (394)

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<400> 608

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ggactcgggg cgctggaggg aagtttcgtt ctctggagaa acagaacgcg ctcgaggggg 120
caccgtgggg cnaaggnnnc actcggttgc ggcggcagga gtgagggaca gtccccgat 180
ttcctgctcc ctggggccct ggggacgttc cggccaccgg agcgactgtc acgccgacgg 240
ggatcaccgg cgcgagttgg ggggtcggaa agcgccctct cccgccggtc gcggtccgct 300
aaccacttct cgcttgccctg ttccgctcct taagagcaac tgttgccctt ttgaagcagn 360
ataagtgtgc tgnngctngaa gcttanccgg ttgnttgt 398
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<210> 609

<211> 275

<212> DNA

<213> Homo sapiens

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taataggtaa tgcaggtagg ttcagggttaa gccacaatg ttttgcattt ttatgcttat 120  
tttctgtcaa cactaatgaa gtcaacattg cctgaatgtc tgaataatga aacacatccc 180  
tgtttaaaag tatgtaactg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa nccccncggg gggnc 275

<210> 610  
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<400> 610

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tctcctcagc cgagaatgac ttcgtccacc ggatccagga ggtggaagag gatggcccca 120
gcagctgctc ggaggacgat tacagtgagc tgctgcagga gatcacagac aacctgacga 180
ggaaggagat tcagatagag aagatccatt tggacacgtc ctccttcatg gaggagctgc 240
ctggagagaa ggaccttgcc cacgtggtag agatcttatg actttggaac cagcgttcaa 300
gacggaggac ctgcttggca acgttttnt gagtttcaa gaggaagggg tttcaagntt 360
caattgggtt ggatgataat tcaaggaatt nggcantttt tccctgcccc ggccttaatt 420
tncggaagnc ctg 433
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<210> 611

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<212> DNA

<213> Homo sapiens

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<222> (405)

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<222> (422)

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tgctggagca gccggagtc tccctggtgt tggaggggct ggtgttcctg gcgtgcctgg 120  
ggcaattcct ggaaaaccac cccacactgg gaatagccac cttgcccttg tagaatccat 180  
ccgcccattcc gtccattcat ccatcggtcc gtccatccat gtccccagtt gaccgcccgg 240  
caccactagc tggtcggtg caccacccat caacctggtt gacctgtcat ggccgcctgt 300  
gccctgcctc caaccccatc ctactctccc ccaaggcgtg cggggctgtg cagactgggg 360  
tgccaagcat cttctcccca accggggtgt tcccacatgc agtantgtat aacccccatt 420  
cnttcctcgg tccaatgaac ttcagagcag ttccattcnt gcccggccat cttttgtgtc 480  
ngctgtnaaa ataaata 497

<210> 612

<211> 503

<212> DNA

<213> Homo sapiens

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<222> (33)

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<222> (324)  
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<220>

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<222> (498)

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gatntttnt naaaatctct gtatgaaatn atctcgggg agatagattc nccatntttc 120  
ccctgaagnt ttaggggcct ntgcctgccca ctccanaccc tntttntgaa gggcccaagt 180

nactcactat gnaaagaagt cattccctct ngttagtgtt aaanccagtt atgggtcttc 240  
ctggaatggn ggataatcca cacgnggnta aatccaaggg ttgnttnatn tgggttcctc 300  
cctcccctcc ccttccacca gggnttccct gacagnggcc acagggngac ttttnagggg 360  
ttttagggtca ttgnggggat gggtnccngg aaatgggncc agatctgnat tgggggcccc 420  
ccntggttgt cccatggggt tnttagnggn ttttaggggn tngtgggggt aaaggggttt 480  
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<210> 613

<211> 197

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (44)

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caagtggggt ggccttctgt cacagagctn caggtgacct ctggagagac atgggcattn 120  
acatggaaag ctaaaacgga agcttaagct tntattactc aacanaaact tctgtgagac 180  
naaangacaa gccatgt 197

<210> 614  
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<400> 614  
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acataaataa atgaagtaag ccatactgat ttaatttatt ggatgttatt ttccctaaga 120  
cctgaaaatg aacatagtat gctagttatt ttccagtgtt agccttttac ttccctcaca 180  
caatttgga tcatataata taggtacttt gtccctgatt aaataatgtg acggatagaa 240  
tgcatacaag gtttattatg aaaagagtgg aaaagtatat agcttttagcc aaagggtgtg 300  
cccacnaag aaatgagcga tatatagaat agtgtgggca ttctcctgta agtggagtga 360  
aggggtgaca ttctccccac tctnccanccn gggtcncccc atattgaata aaggacgcng 420  
agagacttga accta 435

<210> 615  
<211> 272  
<212> DNA  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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cggntccggg aattcccggg gtcgaccac gcgntccgga ataattggaat ataatatgtc 120  
ttcataatat aacaacacta ntncnctaat ngtaagatta anttaggcag tcttctacca 180  
aatgtgtgtaa tgnngattgc ctcaaaattg tgggtccacat aatccacnct catcttgcaa 240  
agcgtattt cangcacatc attggantac ag 272

<210> 616  
<211> 160  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (148)  
<223> n equals a,t,g, or c

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tctttgctgg ttaantcagg acnaacgagg aggcacgtca gtccaccccn ctctctcccc 120  
attttccgtg ttgntccctt gcttaacngg caaagacctg 160

<210> 617  
<211> 205  
<212> DNA  
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<223> n equals a,t,g, or c

<220>  
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<222> (190)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (194)  
<223> n equals a,t,g, or c

<400> 617  
ggactntgta catttgggag tttttatgan aaacttaa at gttattatct gggcttatat 60  
ctggcctctg ctttctcctt taattgtaaa gtagaagcta taaagcagta ttttcttga 120  
caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa 180  
ggggggggnnn cccngaaaaa aaaac 205

<210> 618  
<211> 450  
<212> DNA  
<213> Homo sapiens

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<220>  
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<222> (405)  
<223> n equals a,t,g, or c

<220>  
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<222> (419)  
<223> n equals a,t,g, or c

<220>  
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<222> (423)  
<223> n equals a,t,g, or c

<220>  
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<222> (428)  
<223> n equals a,t,g, or c

<220>  
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<222> (445)  
<223> n equals a,t,g, or c

<400> 618  
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ttagcggcca tcgcccagct cgtcttcctt ctaccagacg ctggtgctgg aaaagagaag 120  
tgtaagaata acttgcgcca ttagggcccat cggaaaggcc caccaccctt taggaagatt 180  
actggctggt tatagaaggc ccgtgtatat cctatgaaga angctggctc tcaacttccc 240  
ccccagcctt ttaaaagaaa acatttgcta catcgagccg ttctagggtg aaagagggtg 300  
ttgacttatg atagagttag aaaatcacac atccttgtaa attnccatt tggtttaaaa 360  
aaaaaaaaaa aaaactcgag gggggggccc gggtagccaa tttgncccta aaaggagnc 420  
ggnattanaa ttcactggcc ggcgntttta 450

<210> 619  
<211> 294  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (122)  
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<220>

<221> misc feature  
<222> (183)  
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<220>  
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<223> n equals a,t,g, or c

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<222> (283)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (289)  
<223> n equals a,t,g, or c

<220>  
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<222> (290)  
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<400> 619  
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ttggggaagt catgctgagg gtggtagtgt gaccctgcct gaaaaaaggg tctcttacct 120  
tnccagccct ggctcaactc tgaagaagga tcttgctaca gaaggagccc ttgggctccc 180  
ttntcttttg gatagcagtt ataatgccc ttgttcccaa taaaactggg cagatgggaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaacccc ggggggggnc ccngncccn tttg 294

<210> 620  
<211> 127  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (95)  
<223> n equals a,t,g, or c

<220>  
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<222> (99)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
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<222> (125)  
<223> n equals a,t,g, or c

<400> 620  
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ctgggtgatcg ggggcggctc gggcgggctn gccancgtng tggagagcca caagctnggt 120  
ggcantt 127

<210> 621  
<211> 115  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (86)  
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<220>

<221> misc feature  
<222> (111)  
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<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<400> 621  
ggcacgaggc tcagtacagc tcagctnagc ccagcccagt ccaaccacgc ccagcccagt 60  
ccaaccacgc ccagctcagc tcagcncagc ccagctcagc tcagctcagc nnagn 115

<210> 622  
<211> 507  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
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<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (466)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<400> 622

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gtttttttct gtgtacattt ttttcctaag tttatggcac agggtagacc ttaagtattc 120
ctctccatc cttcattctt caccctccat tggatcctca agttttaatg aattccaatt 180
ataccttaca tcagcaagtt aaaaaaagta ctttaaaata aagcaaaggg agactggtgc 240
tcaaccatca ggaacagtt gtcagaagac atcattgggt ctgtgtttcc tacggaaatn 300
agaaacgata aatattgcac tgaatgtttg tggtttggag tccctgaata ataaagangc 360
aatatatttg cagaaagtcn catagggttt tttaatgcag aattttgtca gaagacaatg 420
gcgctgcacg tttttctttg aattgcaaat nttcattgct aaagantttt ttttaagatgg 480
gcatnttgct ttgaaaaaga aanatt 507
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<210> 623

<211> 340

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (286)

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<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 623

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aattcggcag aggtcattaa aaaactagag aattagccat attaaggatt tttcttgact 60
gcaaattact tctaaagaat catcagtgtg tagattagaa gtgctcatta cctgcaactt 120
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```
ttaaaaaaaa ttcagttata gctgcttttg aagagggttc catttttatt taaattacta 180
atggatcaaa gaacaattgt ttattttttc tctttgggtt tagatattaa tgataacctt 240
gttggaatt ttttttccaa agaaaatatt tttatgaatt gaaatnaatn ttgaatgttt 300
tncttcntt tcatttacct actcttgga gtgtagggn 340
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<210> 624

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

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<220>

<221> misc feature

<222> (204)

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<220>

<221> misc feature

<222> (212)

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<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<400> 624

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gcctggcctg ataatgtcct ttttaaatgg agttcagact attaacattt aatgtaatta 120
tcaatatagt tggatttaag tgtactgtct tgctatttgt ttcctattta tgccaacttt 180
tttttaatgt cttttgttct tntngttttc tnttctttcc tnn 223
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<210> 625

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (265)

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<220>  
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<220>  
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<220>  
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<222> (468)  
<223> n equals a,t,g, or c

<220>  
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<222> (482)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 625

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aatgtaacat gacaagagat tttgcgtttg acattgtgtc tgggaaggaa gggccagacc 120  
ttggaacctt tggaacctgc tgtcaacagg tcttacaggg ctgcttgaac cctcataggc 180  
ctaggctttg gtctaaaagg aacattttaa aagttgccct gtaaagttat ttggtgttca 240  
tttgaccaat tgcaccccca gcttnaaaag caagaagcat ccgtttccct ggaattataa 300  
agaatttggt tcccaccct aaaattttta cagtttnaaa aacttgggtt tccattgaa 360  
cattcctcct tttttcccca gtttcccca aattcctntt ttttattttt ttggggaaat 420  
aagggttgcc ccatttttta ancctacact acttnggaa atgcccnc cctggaatga 480  
anggaaaggt ncccnattac gnccttnagg ttaattacag ttccctcccc tccccctgc 540  
c 541

<210> 626

<211> 483

<212> DNA

<213> Homo sapiens

<220>

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<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

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<222> (344)

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<222> (355)

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<222> (371)

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<222> (385)

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<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (481)  
<223> n equals a,t,g, or c

<400> 626  
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ggcgatagaa attgaaacct ggcgcaatag atatagtacc gcaagggaaa gatgaaaaat 120  
tataaccaag cataacatag caaggactaa cccctatacc ttctgcataa tgaattaact 180  
agaaataact ttgcaaggag agccaaagct aagacccccc aaaccagacg nagctacctg 240  
agaacagcta aaagagcaca cccgtctatg ttagcaaaat aatgggaaga tttatagggt 300  
tgaagcgaca aacctaccga cctgggtgat actggttgtc cnanataaat cttanttcac 360  
tttaaatttg nccacagaac ctctnaatcc cttgttaatt taatgttatc caaaaaagaa 420  
cagctcttgg gacctaagaa aaaacttggt naaaaattaa aatttacacc atgtagctnn 480  
nac 483

<210> 627  
<211> 221  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (116)  
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<220>  
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<222> (158)  
<223> n equals a,t,g, or c

<220>  
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<222> (161)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (191)  
<223> n equals a,t,g, or c

<220>  
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<222> (221)  
<223> n equals a,t,g, or c

<400> 627  
actctagcct aggatatttgc aaaaagctat ttacgtaaca ctatagaagg tacgcctgca 60  
ggtaccgggc cggaattccc gggtcgaccc acgcgtccgg tcttggggnc cagcanccag 120  
actcaggaca gagtggactc tgcctgtgat ggggtggnc ncctgctggc cccctccac 180  
cagtgcctnt ngcatatata tatttggtgt gcacaggaag n 221

<210> 628  
<211> 122  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (70)  
<223> n equals a,t,g, or c

<220>  
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<222> (71)  
<223> n equals a,t,g, or c

<400> 628  
aaggctgaaa aacgcaagag gatattggtg gatatcgagc tatgaggaaa gacnaaanag 60  
catgaaggan nagggaagga agatgagcta agatgaagat gaagaaagaa agatgatgat 120  
ga 122

<210> 629  
<211> 252  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (169)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<222> (182)  
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<220>  
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<222> (243)  
<223> n equals a,t,g, or c

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cagacatttg gtgtatgtgc ttggctgagg agccaatggg gcgaagctac catctgtggg 120  
attatgactg aacgcctctn agtcagaatc ccgcccaggc ggaacgatnc ggcnncgccg 180  
cngatcctcg gttggcctct gatatecggg cccccgcctg tccccgccgg cggggcggga 240  
ccngggtccc gt 252

<210> 630  
<211> 619  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
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<222> (18)  
<223> n equals a,t,g, or c

<220>  
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<222> (19)  
<223> n equals a,t,g, or c

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<222> (22)  
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<223> n equals a,t,g, or c

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<222> (93)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>  
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<222> (251)  
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<220>  
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<222> (484)  
<223> n equals a,t,g, or c

<220>  
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<222> (528)  
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<220>  
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<222> (558)  
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<220>  
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<223> n equals a,t,g, or c

<220>



<221> misc feature  
<222> (605)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (613)  
<223> n equals a,t,g, or c

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cacnatcaaa agggacaagc atcaancacg cannaatgca gctnaaaacg cttagcctag 120  
ccacaccccc acgggaaaca gcagtgatta acctttagca ataaacgaaa gtttaactaa 180  
gctatactaa ccccagggtt ggtcaatttc gtgccagcca ccgcgggtcac acgattaacc 240  
caagtcataa naagccggcg taaagagtgt tttagatcac cccctcccca ataaagctaa 300  
aactcacctg agttgtaaaa aactccagtt gacacaaaat agactacgaa agtggcttta 360  
acatatctga acacacaata gctaagaccc aaactgggat tagatacccc actatgctta 420  
gccctaaacc tcaacagtta aatcaacaaa actgctcgcc acaacactac gagccacagc 480  
ttanaactca aaggaactgg cggtgcttca tatccctcta aaaagaanct gttctgttat 540  
cgataaacc cgatcaanct cccactctt gctcacctat ntccaaaaaa aaaaaaaaaa 600  
ctcanggggg gcnggggtcc 619

<210> 631  
<211> 210  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
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<222> (42)  
<223> n equals a,t,g, or c

<220>  
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<222> (46)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
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<222> (63)  
<223> n equals a,t,g, or c

<220>  
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<222> (64)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (130)  
<223> n equals a,t,g, or c

<220>  
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<222> (136)  
<223> n equals a,t,g, or c

<220>  
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<222> (162)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (165)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<400> 631

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ggnCNTaaca cccacncaa gagtccccac ttaacaatac cccccnccna cgncaagaat 60
gcnnaaatcc gaatgaccn agttttccta ttgagtaaAC angatcccag ttgtgccccA 120
ctagcatgan gcctgnagtt ccggtttcat gcatgaaatt gnttntggag agttttgtaa 180
gttgtaaagc caattactgg cttttnacat                               210
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<210> 632

<211> 359

<212> DNA

<213> Homo sapiens

<400> 632

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caagctgctg ctccaaggcc tggccacatg cagacaggag gaagctgagc tcgacattag 60
gcctcaaggc tgccatctgt cttgtagggc ctggccttgt gggcaggggg cagtcctgtg 120
ccttgtgggc cctcagcctc tgagggcaga gatgctgtca gtgccgcagg gtaagggacg 180
agtcttctgg aaggctctgc catggacatt tgcctcggg ctcagaggcc ccaccctgcc 240
ccacacctgc ccctaatac tgcagtgtcc agcccagtgt tgaacagatt gtagcgttct 300
gtctcattac gagcaataa atagactttc attggaaaaa aaaaaaaaaa aaaaaaaag 359
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<210> 633

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

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<220>

<221> misc feature

<222> (256)

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<220>

<221> misc feature

<222> (286)  
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<220>  
<221> misc feature  
<222> (319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (323)  
<223> n equals a,t,g, or c

<400> 633  
cttttggggg ataagaaagc ctgggagggg cctgtgccaa aacctctctt gcctggggac 60  
tgggcggtga ttccgcttct gcctgggctc ctgccatggc ccccgagagg ggctgacact 120  
ttagctcccg gtgcaggtga gaacccgccc ggaggaagaa ggaaggcgcg ggccggggat 180  
taggagacgg aggcggactc ggagccaggg aaccaggggt ncnggctaga gctggagtcg 240  
tgagcncgcg ccgcncgcgc tctgggagga ccgcgagatg cccgtntcta agcagctggg 300  
ccccgcgtca cccaagaanc ggnctgat 328

<210> 634  
<211> 330  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (325)  
<223> n equals a,t,g, or c

<220>  
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<222> (326)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (329)  
<223> n equals a,t,g, or c

<400> 634

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cagaatcctc tttctcccc atttgccct gggctcagg gaccaggtgg ggcgggtggg 60
gagctgtccg gtgctaccac accgtgccct cagtggacta accacagcag cagccaggga 120
tgggccctgg aggttcccgg ccggagagtg cctctccct ctgccatcca cgtcaggtct 180
ttggtggggg gaccccaaag ccattctggg aagggctcca gagtcagcc gtccagctgc 240
tcctttcca gtttgatttc aataaatctg tccactcccc ttttgtgggg gtgaacgttt 300
taacagccaa aaaaaaaaaa aaannnnana 330
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<210> 635

<211> 111

<212> DNA

<213> Homo sapiens

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<222> (11)

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<220>

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<222> (19)

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<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

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<222> (35)

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<221> misc feature

<222> (38)

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<222> (109)

<223> n equals a,t,g, or c

<400> 635

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caatcccggt ntaccagng tcnttttcc cccncanga aaagaaacaa caacttgggg 60
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaagaaagnt c 111
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<210> 636

<211> 298

<212> DNA

<213> Homo sapiens

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<220>  
<221> misc feature  
<222> (211)  
<223> n equals a,t,g, or c

<220>  
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<222> (220)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (225)  
<223> n equals a,t,g, or c

<220>  
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<400> 636  
aattcggcac agcttaatca cccttgctcc tcctgggtgc ctggaagatg gactggcaga 60  
gacctgtttg ttgcgttttg tgctttgatg ccaggaatgc cgcctagttt atgtccccgg 120  
tgggggcaca cagcgggggg cgccaggttt tccttgctcc ccagctgctc tgcccccttt 180  
cccttcttc cctgactnca ggccgaacc ngctccgtgn ctgtnaataa atctttgtga 240  
aattaaaaaa aaaaaaaaaa aaaactcggg ggggggcccg gtaccaantt gggccctt 298

<210> 637  
<211> 491  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (64)  
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<222> (133)

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<222> (139)

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<221> misc feature

<222> (298)

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<220>

<221> misc feature

<222> (365)

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<220>

<221> misc feature

<222> (367)

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<220>  
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<222> (390)  
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<220>  
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<220>  
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<222> (469)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (473)  
<223> n equals a,t,g, or c

<220>  
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<222> (474)  
<223> n equals a,t,g, or c

<400> 637  
ggcagagccc cagaagagca ggacgccttg tacctgcaga gaaggggaagc agcctctnta 60  
cctnatctgn ggctaccaga gagcagaaag gacccaccct gggactcttc tgtntgttng 120  
aaagatgcmc canccctgnc ccccggttc ccctctntcc gccacagaac ccagttttct 180  
agaccagggg gacgggcacc catcactccg caggcgaaat naaagccccc ctgccccggc 240  
cctaaacccc tgtgncctcc ttcccatgg ttcccccag agccagttac aaccctgncc 300  
cgggccttaa ccccatggc ttctttctg tggttttccc ccagaggcca gttagttccc 360  
aactngnaaa nccgtttggg nttcccatn aaaaaaatt ttggtttcat ttnaaaaaa 420  
aaaagggnag gagggggggg gcccggttaa ccatttgggc tttaagtng tgnnttttaa 480  
aattaattgg c 491



<210> 638  
<211> 331  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (29)  
<223> n equals a,t,g, or c

<220>  
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<222> (55)  
<223> n equals a,t,g, or c

<220>  
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<222> (79)  
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<220>  
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<222> (111)  
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<220>  
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<220>  
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<220>  
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<222> (148)  
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<220>  
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<222> (163)  
<223> n equals a,t,g, or c

<220>  
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<222> (206)  
<223> n equals a,t,g, or c

<220>  
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<222> (218)  
<223> n equals a,t,g, or c

<220>  
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<222> (309)  
<223> n equals a,t,g, or c

<220>  
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<222> (321)  
<223> n equals a,t,g, or c

<400> 638  
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ctactggatg cttacagtna ctgtggatac gggggttccc ttccccatt nagtgacatg 120  
tcctctctgc ttggngtaaa cnattctnng gaggacactt ttnccaataa actctttccc 180  
cagctgatta gtgtctaagg aatganccaa tacttgtnng cccttttcct tggactatta 240  
acaattgcct gggaggntta gcaagaggaa gcctgtntgt aatttnattt caaaaaggca 300  
aaatagagng ttttacagtc ntagggaat t 331

<210> 639  
<211> 444  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 639

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ccgagttcca gagcatgggg tctcggttgt cccagccttt tgagtcctat atcactgcgc 60
ctcccgggtac cgccgcgcgc cccgccaaac ctgcgcccc agctacaccc ggagcgccga 120
cctccccagc agaacaccgc ctgttgaaga cctgctggag ctgtcgcgtg ctttctgggt 180
tggggctgat gggggcgggc gggtacgtgt actgggtggc acggaagccc atgannntgg 240
gatacccccc gagtccatgg accattacgc agatgggtcat cggcctcagt gagaatcaag 300
gcattgccac ctgggggtatc gttgtcatgg cagaccccaa agggaaggcc taaccgcgtt 360
gtttgaaagt accaccagtg aatctgtctt ctgtctctgt ccctttcccc gtgacacaca 420
gagcangcat ggaatttaat gggt 444
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<210> 640

<211> 598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>  
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<222> (484)  
<223> n equals a,t,g, or c

<220>  
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<222> (518)  
<223> n equals a,t,g, or c

<220>  
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<222> (520)  
<223> n equals a,t,g, or c

<220>  
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<222> (543)  
<223> n equals a,t,g, or c

<220>  
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<222> (557)  
<223> n equals a,t,g, or c

<220>  
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<222> (568)  
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ggcgatagaa attgaaacct ggcgcaatag atatagtacc gcaagggaaa gatgaaaaat 120  
tataaccaag cataatatag caaggactaa cccctatacc ttctgcataa tgaattaact 180  
agaaataact ttgcaaggag agccnaaggt taagaccccc gaaaccagac gagctaccta 240  
agaacagcta aaagagcaca cccgtctatg tagcaaaata gtgggaagat ttataggtag 300  
aggcgacaaa cctaccgagc ctggtgatag ctggttgtcc aagatagaat cttagttcaa 360  
ctttaaattt gccacagaac cctctaaatc cccttgnaaa tttaactgta gtccaaagag 420  
gaacagctct ttggacacta ggaaaaaacc ttgtagagag aggaaaaant tacaccata 480  
gtangcctaa aagcagcacc aattaagaaa gggccaantn acaccatact aaaatccaac 540  
ctntactgac tctacancca ttggccantt tcctttaaac caggggtatc cgaacttc 598

<210> 641  
<211> 466  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

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<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 641

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caacctccga gcagtacatg ctaagacttc accagtcaaa gcgaactact atactcaatt 120
gatccaataa ctgaccaac ggaacaagtt accctaggga taacagcgca atcctattct 180
agagtccata tcaacaatag ggtttacgac ctcgatggtg gatcaggaca tcccgatggt 240
gcagccgcta ttaaaggntc gtttgggtcaa cgattaaagn cctacgtgat ctgagttcag 300
accggagtaa tcanggcggg ttctatctac ttcaaantct tcctgtacga aaggacaaga 360
gaaataaggc tacttnacaa agcgccttcc ccgtaatgat atcatcttaa cttagtatta 420
taccacacac caccacaaga canggggttg taagaaaaaa aaannn 466
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<210> 642

<211> 575

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

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<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>  
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<222> (127)  
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<220>  
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<222> (130)  
<223> n equals a,t,g, or c

<220>  
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<222> (134)  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (532)  
<223> n equals a,t,g, or c

<220>  
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<222> (543)  
<223> n equals a,t,g, or c

<400> 642  
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cacttgctat aagtttttta attaacaatca ctagtgacac taataaaatt aacttnttag 120  
aangcangan gtgnttgtn gtnacaaatn cagaaagtga actgcagtgc tagnaatacac 180  
atgttaatac tgnntttctt ctatctgtag ttagtacagg atgaatttaa atgtgctntt 240  
cctgagagac aaggaagact tgggtatttc ccaaaacagg taaaaatctt aaatgtgcac 300  
caagagcang aggatcaact tttaggncat tgatgatctg taaagacaac aaatcccttt 360  
ttttttctca attgacttaa ctgcatgagt tctggtttat ctacctctaa agcaaactctg 420  
cagngttcca aagacttttg tatggattaa gcgctgccag taacaaaatg aagtctcaaa 480  
acagagctca nntgcanaaa agcatatctt ctgcggttct ggactgcact gntgccttgc 540  
ctnacataga cactcagaca cccttacaaa cacag 575

<210> 643  
<211> 492  
<212> DNA  
<213> Homo sapiens



<220>  
<221> misc feature  
<222> (40)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (125)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (310)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<400> 643  
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cccgaaccac gacgagctac ctaagaacag ctaaaagagc acaccctgtct atgtagcata 120  
atagnngggaa gatttatagg tagaggcgac aaacctaccg agcctgggtga tagctgggtg 180  
tccaagatag aatcttagtt caactttaa tttgccaca gaaccctcta aatccccctg 240  
taaatttaac tgtagtcca aagaggaaca gctctttgga cactaggaaa aaaccttgta 300  
gagagagtan aaaatttaac acccatagta ggcctaaaag cagccaccaa ttaagaaagc 360  
gtcaaagctca acaccacta cctaaaaaat cccaaacata taactgaact cctacacca 420  
attggaccaa tctatcacc tatagaagaa ctaatggtag nataagtaac atgaaaacat 480  
tctccttcgc an 492

<210> 644  
<211> 68  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (58)  
<223> n equals a,t,g, or c

<400> 644  
gatacntcan tgggaacagg gcccatggaa atgtacagga ntttcctat ttggtgntc 60  
agcttgaa 68

<210> 645  
<211> 488  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (290)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
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<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 645

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tcttatttaa ttagaatgga taagatgatg ttaaatagcct tggtttgatt tctagtatct 120
attgtgttgg ctttacaat aattttttgc agtcttttgc tgtgctgtta cattactgta 180
tgtataaatt atgaaggacc tggaaataag gtataaggat cttttgtaaa tggagacaca 240
tacaaaaaaa atctttgaat ggtnaatag ggatggaatg gggaaagtgn ttttgaaaag 300
anattcccat tttgccgggg agactatttg aagtgnccat cnttgtccca aacaaggtaa 360
attntttttt gtaaagtgcc aagtnccggc aggcagaagg aaccgtttac agtgtgattn 420
aagaaaggga aaccgtgcc tttttagcct ccaaacccaa ttgaccataa tttacaggcc 480
ccggtttg                                     488
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<210> 646

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 646

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ggatgttttt atattacatg aatttaataa taaactaaac ttttttttgt ctcccggtat 60
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tgaaaagtac caaagcttct ttctgttggtg ttgatttta ctataggggt ttgcttttt 120  
ctagagatac ttttcattta acagcttttg ttaagtgtca ggctgcactt tgctccatat 180  
aattattggt ttcagatttc aacttgatg tgttgtctc ttaaagcatt ggtgaaatca 240  
catattttat attcagcata aaggagaata aattccagaa aacacannan aaaaaanaaa 300  
an 302

<210> 647  
<211> 137  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (114)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<400> 647  
gggcgggggg gcntnccccg aggggctctc gcttctggcg ccaagcgccc ggtcgcgcg 60  
cggcggggcg ctaccgctc cggggacagt gccagggtggg gagtatgact gngnngnaac 120  
acctgttaaa cnggaac 137

<210> 648  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 648  
ggcacgagct gcagcggggt gagcggcggc agcggccggg gatcctggag ccatggggcg 60  
cgcgcgcgac gccatcctgg atgcgctgga gaacctgacc gccgaggagc tcaagaagtt 120  
caagctgaag ctgctgtcgg tgccgctgcg cgagggtac gggcgcatcc cgcggggcgc 180  
gctgtgtgcc atggacgcct tggacctcac cgacaagctg gtcagcttct acctggagac 240  
ctacggcgcc gagctcaccg ctaacgtgct gcgcgacatg ggcctgcagg agatggccgg 300  
gcagctgcag gcggccacgc accagggctc tggagccgcg ccactgggat ccaggcccct 360  
cctcagtcgg cagccaagcc aagcctgcac tttaatagac cagcacggg cttegttacc 420  
gcgaaggtca aa 432

<210> 649  
<211> 544  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (459)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (505)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (519)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (531)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (540)  
<223> n equals a,t,g, or c

<400> 649  
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caatgcagag accatgctga gctcactgga cactgtgctg gggctagggg atgacaccct 120  
tctgtggcct caagtgtgat gccttacaaa agcaccactc agatgggcag ctggactctg 180  
gtgtcctgag actctgccct cttcccacag cctccctgcc ccacccatcc ctgcaaagcc 240  
atthttcaga cagagccatt cctaagaaca ctgaagggtt ggaatgctgg ctggccactc 300  
tctgcctcag tggcctccct aaagcctgga agaaggaggg tcctgattgc caaggaaacc 360  
tcctcattgg gctaaggaga cactggagtc tggantgtgg agccccacag tcttgcaggt 420  
caaagtctct ccttgcant ctggcctggt tgtaaccant gggctctggc tctgccctgg 480  
gggcaaaaag ggccctcctt gccangggag aaaagccang gtctcttttg ncgatgggtg 540  
aatc 544

<210> 650  
<211> 406  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (234)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (272)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (393)  
<223> n equals a,t,g, or c

<400> 650  
ctccacctta ctaccagaca accttaacca aaccatttac ccaaataaag tataggcgat 60  
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120  
caagcataat atagcaagga ctaaccctta taccttctgc ataataaatt aactagaaat 180  
aactttgcaa ggaagagcca aagctaagac ccccgaaacc agacgagcta cctnagaaca 240  
gcttaaagag cacaccctc ttttttgcc anaatagtgg gaaagattta taggtttgaa 300  
ggcgaaacaaa cctaccgagc ctggttgatt agcttgtttg tcccaagatt agaattctta 360  
tttcccactt ttttattttt gccccaccag aancctcctt tttaaa 406

<210> 651

<211> 444  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (237)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (275)  
<223> n equals a,t,g, or c

<220>  
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<222> (299)  
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<220>  
<221> misc feature  
<222> (313)  
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<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
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<222> (361)  
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<220>  
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<222> (388)  
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<220>  
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<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<400> 651

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ggaaaagatga aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg 60
cataatgaat taactagaaa taactttgca agggagagacc aaagctaaga ccccgaaac 120
cagacgagct acctaagaaa cagctaaaag agcacaccgg tctatgtagc aaaatagtgg 180
gaagatttat aggtanaggc gacaaacctt ccgagcctgg tgatagctgg ttcccnaag 240
aatagaatct tagttcaact ttaaatttgc ccacngaacc ctctaaatcc cccttgtna 300
atttaactgt ttngtcccaa anaaggaaca gctccttttg ggaccctagg aaaaaacctt 360
nttaaaaaaa agtttaaaaa attttacncc ccttgtttgg ccttaaaacc cccccccan 420
ttaaaaaagg ttcaaaactc ccan 444
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<210> 652

<211> 69

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

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<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 652

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tatggtttt 69
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<210> 653  
<211> 649  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (232)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<220>  
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<222> (240)  
<223> n equals a,t,g, or c

<220>  
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<222> (253)  
<223> n equals a,t,g, or c

<220>  
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<222> (268)  
<223> n equals a,t,g, or c

<220>  
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<222> (270)  
<223> n equals a,t,g, or c

<220>  
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<222> (275)  
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<220>  
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<222> (283)  
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<220>  
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<222> (284)  
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<220>  
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<222> (310)  
<223> n equals a,t,g, or c

<220>  
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<222> (313)  
<223> n equals a,t,g, or c

<220>  
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<222> (324)  
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<220>  
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<222> (344)  
<223> n equals a,t,g, or c

<220>  
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<222> (351)  
<223> n equals a,t,g, or c

<220>  
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<222> (352)  
<223> n equals a,t,g, or c

<220>  
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<222> (354)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (367)  
<223> n equals a,t,g, or c

<220>  
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<222> (374)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (396)  
<223> n equals a,t,g, or c

<220>  
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<222> (398)  
<223> n equals a,t,g, or c

<220>  
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<222> (417)  
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<220>  
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<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (424)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

<220>  
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<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (444)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (457)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (477)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (504)  
<223> n equals a,t,g, or c

<220>  
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<222> (513)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (525)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (532)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (568)  
<223> n equals a,t,g, or c

<220>  
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<222> (591)  
<223> n equals a,t,g, or c

<220>  
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<222> (605)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<400> 653

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ccagctaagg acataaaaca aaaataaaca aacaaaaaca aatagccatc tgctatcagc 120
atcattatgt aaaagaaaat atatttttagc ccctaaaatt aggaagaatg taatctcaga 180
ataaagggttg tcatttaagt tgaataaata tatagcttta tgaaaaacat anaanaaaan 240
aaaaaaaaaa aangccccga aaggaccntn ttaancaaaa ccnnattgaa aaggcttgga 300
aaaacaaagn cgnttgaaag ctgnttccag taaaccaaac caanccagta nngnggggca 360
attngtngcc ttancagtac ccantcaaaa aanagnngntt tgggaaaagg gggaaanaaa 420
aggnaatcng aancttaagc ttanactttt gggaaanatt ccccttgga aattganaag 480
ttttttgggg aaaaggnaaa aggnacaacc ttnttgaaaa ttanggggg gnattaaact 540
taaatttgcc taattggggg gaaccccntt taaaaaaaaa ttggacttgg ngactaaagt 600
tgcantgaaa ttttttcccc ttaaaaaagg ggccttggtta cccttnagg 649
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<210> 654

<211> 598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (251)

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<222> (343)

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<222> (433)

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<222> (455)

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<222> (517)

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<222> (561)  
<223> n equals a,t,g, or c

<220>  
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<222> (590)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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aaccacttga cettgaccac catgttgctg cccacgact cccacatgct ctgatgcgg 120  
ccgatgtagg ggaggttggg ccgccagct gacaggaaga cggcacagtc cccgacacgc 180  
agggctcctt cgcccgccac gatggccttg taaaacagct tccgggcctt ccccttcacg 240  
ccacgcccgt ntgggggaca tgggcagggt ggctctgaaa agccgggggg ctgtggggac 300  
agattgcggc caggaagcat ggaagggtgt gtgtgggtgt gantgtgaat ctgaatgtga 360  
gtgtgcaggg cggccacaag ggcaggaagc cgcagcaccg cggcttaagg ccatggcagc 420  
catggatctg gancaagggc cagcctcca cgganccgc acatggaatc atgactctgg 480  
acactggatc tggggacagg gacatgtgga caagacnttc ancacagtgt tttttacgaa 540  
ggcggaagaa ccacgaatgg nccccatgc gcccccaac aattgccctn gnttaaga 598

<210> 655  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
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<222> (347)  
<223> n equals a,t,g, or c

<220>  
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<222> (401)  
<223> n equals a,t,g, or c

<220>  
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<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (416)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)  
<223> n equals a,t,g, or c

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cctgcctttt actttcgtgt ggatatgtga agcattgggt cggaactag ctgtagaaca 120  
caactaaaaa ctcatgtctt ttttcacaga ataatgtgcc agttttttgt agcaatgata 180  
tttctcttgg aaagccagaa atgcttttga ccagagcacc tccaaactgc attgagaaaa 240  
aattcccaga accatcccct ttttccattt ttatattatt tataaagaaa gattaaanct 300  
gttttgacta tnttacagcc ctggaattta ctacctccct gtttctntct ccccgaaaaa 360  
aatgaaacca acgattgggt tcctttgaat tcccggtccc ncctcccgtt atttnnaaaa 420  
tccccccctt ntt 433

<210> 656  
<211> 450  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (136)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (355)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (414)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

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acgacagcac gtgttctttt tcaactagtag aagtgacgtt ggtttcatgt tggggggggg 120  
ggngccatth ttttntgtt tcagtggaga gcaaaatgaa taacaaagcg ggctcctttt 180  
tctggaacct tagacaattc agtacattag tttcaacaag cagaactatg aggctatgtt 240  
gtttgggact ttgcaaacca aaaatagttc cattcaaact ggaacattht gaaataactt 300  
tcataacaga atgcaatcaa cggatgatca ttgagngagc gcttgacagn tgccntcatt 360  
tttgaaatca gatgttggcc ttgcaaacca agggncataa agcactccaa cagnccctta 420  
gaaattgnaa agacnacctt tatgctaata 450

<210> 657  
<211> 434



<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<400> 657  
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tgaggatcac ctacatagan cgaaaacaga aaaaaacccc gaatccatt actttgacag 120  
tggttttaga cctgtgttac taaaaaaag atgaatgtcc tgaaaagggt gttgggaggg 180  
tggttcaaca aagaacaaaa gatgttatgg tgtttagatt tatggttggt aaaaatgtca 240  
tctcaagtca agtcactggt ctgtttgcat ttgatacatt tttgtactaa ctagcattgt 300  
aaaattatth catgattaga aattacctgt ggatatttgt ataaaagtgt ggaataattt 360  
tttataaaag ggtccatggt tcgtaacccg ccttgtatat ggggagccaa cncccaaatt 420  
ataatgnccc ccna 434

<210> 658  
<211> 397  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (17)

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<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

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<222> (360)

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<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 658

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gacagtctca gggacacccat gtagagaatt ttggtctcga ttcagaaaag agaaagagcc 120  
agtgggttgtt gagacagtag aagagaaaaa ggaacctatc ctagtgtgtc cacctttacg 180  
aagccgagca tacacaccac ctgaagatct ccagagtcgt ttggaatctt acgttaaaga 240  
agtttttgggt tcatctcttc ctagtaattg gcaagacatc tccctggaag atagtcgtct 300  
aaagttcaat cttctggctc atttagctga tgacttgggt catgtagtcc ctaaactccn 360  
gactccacca gatgtgnagg gtnagagatg tnctnga 397

<210> 659  
<211> 156  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
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<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
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<222> (90)  
<223> n equals a,t,g, or c

<220>  
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<222> (94)  
<223> n equals a,t,g, or c

<220>  
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<222> (98)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (130)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (150)  
<223> n equals a,t,g, or c

<400> 659

gnagccnttn gnaacgttct tggcggaatc agcggggaaa gaagaccctg ttgagcttga 60  
ctctagtctg gcacggtgaa gagacatgan agnggtanaa taagtgggag gcccccgcg 120  
cccccccggn gtccccgcga gggggcccggn gcgggg 156

<210> 660

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<400> 660

gcagtttagt ttaccctac tgatgatgtg ttgttgccat ggtaatcctg ctcaagtacga 60  
gaggaaccgc aggttcagac atttggtgta tgtgcttggc tgaggagcca atggggcgaa 120  
gctaccatct gtgggattat gactgaacgc ctctaagtca gaatcccgcc caggcggaac 180  
gatacggcag cgccgcggag cctcggttgg cctcggatag ccgggtcccc cgctgtcccc 240  
gncggcgggc agccnccnct ntacgangcc caccgc 276

<210> 661

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>  
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<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (25)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (33)  
<223> n equals a,t,g, or c

<220>  
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<222> (186)  
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<220>  
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<222> (225)  
<223> n equals a,t,g, or c

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<222> (250)  
<223> n equals a,t,g, or c

<220>  
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<222> (259)  
<223> n equals a,t,g, or c

<400> 661  
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aggttcagac atttggtgta tgtgcttggc tgaggagcca atggggcgaa gctaccatct 120  
gtgggattat gactgaacgc ctctaagtca gaatcccgcc caggcggaac gatacggcag 180  
cgccgnggag cctcggatgg ctcggatagc cgggtccccc cctgnccccg ccggcgggcc 240  
gccccccctn cacgcgcenc gcgcgcgcgg gaaag 275

<210> 662  
<211> 506  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (51)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (69)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<220>  
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<222> (191)  
<223> n equals a,t,g, or c

<220>  
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<222> (345)  
<223> n equals a,t,g, or c

<220>  
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<222> (363)  
<223> n equals a,t,g, or c

<220>  
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<222> (383)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (466)  
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<220>  
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<222> (481)  
<223> n equals a,t,g, or c

<220>  
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<222> (487)  
<223> n equals a,t,g, or c

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aatgcttana aaaagcttga taaaccactg ggctaagtag acagagggag aggctagcag 120  
tatttttaaa ttgggtttcta aattttttat agcttgatgg tagataacac atttgcttca 180  
atnaaggtaa nccggaaaaa acaaatcctc aaaaagacct ctcaattaga attcttaaat 240  
gacaatgttt tctttatcat atatttgaga gattgattta aagaaaaata tgcttgacta 300  
tctgaaataa tattttaacc ctatcataaa atctctgcct ggtanaacag ctgactgtgg 360  
aanggtaaaa tgcagagaac cantcattgg atctcccttc tctactttgt tactgaaatc 420  
ttgaacctgt anaacaatta cttancactg gggttccttt cctaanggga aaataatact 480  
naacacntgc agagtaattt ttaaaa 506

<210> 663  
<211> 550  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (501)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (528)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 663

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ccatttacc c aaataaagta taggcgatag aaattgaaac ctggcgcaat agatatagta 120
ccgcaaggga aagatgaaaa attatagcca agcataatat agcaaggact aaccctata 180
ccttctgcat aatgaattaa ctagaataaa ctttgcaagg agagccaaag ctaagacccc 240
cgaaaccaga cgagctacct aagaacagct aaaagagcac acccgtctat gtagcaaaaat 300
agtgggaaga tttataggta gaggcgacaa acctaccgag cctggtgata gctgggttgt 360
ccaagataga atcttaagtt caactttaaa tttgccacag aaccctctaa atccccttgn 420
aaatttaact ggtagtcca agaggaacag ctctttggac actaggaaaa aaccttgtn 480
agagagtaaa aaaattaaca nccatagtan gcctaaaagc agcaccanta anaaagcgg 540
caagctcaca 550
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<210> 664

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (486)

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<220>

<221> misc feature

<222> (499)

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<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 664

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tggtgatagc tggttgtcca agatagaatc ttagttcaac tttaaatttg cccacagaac 120
cctctaaatc cccttgtaaa tttaactgtt agtccaaaga ggaacagctc tttggacact 180
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aggaaaaaac cttgtagaga gagtaaaaaa tttaacaccc atagtaggcc taaaagcagc 240  
caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatcca acatataact 300  
gaactcctac acccaattgg accaatctat caccctatag aagaactaat gttagtataa 360  
gtaacatgaa aacattctcc tccgcataag cctgcgtcag attaaaacac tgaactgaca 420  
attaacagcc caatatctac aatcaaccac caagtcatta ttaccctcac tgtcaaccac 480  
acacangcat gtcataang gaanggttaa aaanaaaaaa aaaaactttn gggggggccc 540  
gg 542

<210> 665

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (310)

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<220>

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<222> (324)

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<220>

<221> misc feature

<222> (370)

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<222> (429)

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<220>

<221> misc feature

<222> (431)

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<222> (525)

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<222> (549)

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<220>

<221> misc feature

<222> (600)

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<220>

<221> misc feature

<222> (627)

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<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (687)

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<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 665

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gggtcagagg aaaaaacttt actatgacac ggactatggt tccaagtccc gaggccggca 120
gagtcaacag gaggcagagg agggaggaaag agaggaggag gaggaggcac agatcattca 180
gcggcgcccta gccaagcgc tgcaagagga tgattttggt gtcgcctggg ttgaggcctt 240
tgcaaaacca gtgcctcagg tagatgaggc tgagacacgg gtcgtgaagg atttggtctaa 300
aggttcagtn gaaagaaaaa cctnaaaatg ttgcaaaagg aatcaccaga actcttgagg 360
cttatagaan accttgaaag tcaagttgac agaagttaag gatgagctgg agccattggt 420
agaagttgnt nggaacaagg ggatcattcc acccggaaaa aggaagccaa tactttgagg 480
accaagtaca acctctactt gaattaattg ctggaacatc agtntttatt tgatcctgaa 540
agctaggana gtcccagcac atggacatct tgcatagaa aggcttggtc ctaccgaaan 600
ttgatcaaca agctgtccgt tgggatnaaa actgncctaa aaatcgcatn tggtgcactt 660
aggttatctt taaagaagac tgtttcnaag cnaatcacca agccaaacca ag 712
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<210> 666

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>  
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<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (29)  
<223> n equals a,t,g, or c

<220>  
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<222> (344)  
<223> n equals a,t,g, or c

<220>  
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<222> (357)  
<223> n equals a,t,g, or c

<220>  
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<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<400> 666  
ncacgcgtcc gngggcancn aagtcgatna atgtaaagaa gaaatgaaag cctgggtgtat 60  
tgtacttcaa gatgcctccc tgatgtatag aatctccttg taaaataaat aattgcattg 120  
tatatcagtc ttcccatcaa tattaattat taaatatttt agaatttttt tatagttggg 180  
atttaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 240  
ttacgcgtgc atgcgacgct catagctctc tccctatagt gagtcgtatt attaagctag 300

gcactggccg tgcggtttac aacgtccgtg gactggggag atcngctagc ttggggncct 360  
ngggtgaagg aaccttactn n 381

<210> 667

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

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gagctccaca gcccaccctg tggccccctg cttggcttgg cctggcctgc ccggccccag 180
ccttccaatg ctgctgcacg tcctcatttt cctttttggt cccctcctgc cccctctggc 240
tgttctgcct ttgggcctca nccccagctg cctgaatttg ggcaagggtc tttctctgtg 300
gncttcaagc tcanccccaa gggttcttga accngggctc ttcccaacgg gcccaaccct 360
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aaaatggaca ctgtgcccag cccggacctt gggcagccca ggccgggggtg gngcatgggc 180  
ctggggccacc ttctcttcct ttgctgaggg ctccagcttt caggcaggcc aaggccttnt 240  
tcnnccccac ccgccctccc cagggggcct cgggagctca ggtggggccc agtttcaatc 300  
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caagcataat atagcaagga ctaacccta taccttctgc ataatgaatt aactagaaat 180  
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240  
ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300  
aaacctaccg agcctggtga tagctggtg tccaagatag aatccttagt caactttaa 360  
tttgcccaca gaacctccta aatccccttg ttaatttaac ttgtnagtcc aaagaagaac 420  
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ccaaaccatt taccacaaata aagtatangc gatacaaatt gaaacctgnc ncaatacata 180  
tactaccncc agggaacat gaaaaattat naccnanent aatatancna ggactaacc 240  
ctataccttc tgcntaatga attaaactaca aataactttg cnacganagc ccaagctaan 300  
acccnccaaa ccncacacnt acctnanaac anctnnnaga acnccccntc tatgtaccna 360  
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tttttttttg tttttaagca ttcacccaaa caaaaaaatc acaggtaaac ccatgtttct 180  
gagatgccat tattccaagc aaaataagag ataatccctt caagttaaat tgaaaatttt 240  
cctgaaacca tacatttcaa gtgaaataag taattctaga tagggcaatt tnaattggat 300  
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aattccaaaa gcctgagaaa gagagaagtg gagggggagg cgagtttntn aataaaggct 180

cccatcaggt caaaaaaaaa aaaaaaaaaan ttnggggggg gccccgnncc caattng 237

<210> 673

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gataaaagtg tgagaccaa gaaaattaat gcaaaacttc atgatggagt atgtcagcgc 180  
tgtaaagaag ttcttgagtg gcgtgtaaaa tacagcaaat acaaaccatt atcaaaaccn 240  
aaaaagtgtg ttaaatgttt acaaaagaca gtgaaggatt cttatcacgt aatgtgcagg 300  
ccatgtgccc tgtgaacttg aagtttgcgc aaaatgttgg aagaaaggag accttgtatt 360  
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<212> DNA

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<212> DNA  
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acgtcgtnga gaacctacat ctatacanga ttttaaaaat gaagctgggc gtggtggtac 180  
acacctgtgg tcccagctta ctagggnggc tgcagccagg tntgnacgct ccaanccagg 240  
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agagtcttct tcccaccctg ggcagggatg cacacggtg cagcgctggt gtcgggccaa 180  
gcagatgggc ttggagcctc ccccagaggt gtggcaggtg ctgaagaccc accccggagg 240  
acccccgctt ccagtgcagg tcagagacag gccgggaggg ctttcagggg agccagggcc 300

tttttncagg catgttcacc cngctgttcc tgacctgagg gagnaatggt tggaggggtt 360  
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ggagggtttt cggggggttc ggcgtcgac cttggggccc cccgcagccg tntaccgggc 180  
ctcccatctg ctaagcnttt ttccgttgag ccgntccaaa aacactaagc tggggacgcc 240  
aagtgcctccc ccaccccggc tccttgccc tatccacaac ttcaacncca ncccaggatc 300

gccatctttt aggggagggc tnggaagggg gtgttaaggt gtttttaggg ccaacgaggt 360  
tnaaacaaaa aggacccttn cccannccaa ccannccaan ccnaattna nctncatgnc 420  
ttaggggaaa aatttncnna acaatttncc ctttnnnnga accngggcaa anncaaggna 480  
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<211> 122

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tntctttggn aaagtgnaaa acttttagatg gaaattcttc agggaaaaga aacgaggnaa 180
ggaacaagag gagaaagcag agntaaaacg cttaaaaaat tctgatgacc gggattccaa 240
gcgggattcc cttgaggagg gggagctgag ngattcactg ccatggagat cacaataagg 300
nactccccgt atagaagaga agacttcatn ggnagacagn ggnggaagaa gttggtttct 360
ttggccatca aaccaccccc gcaaattgtn ttggaaagna aaagtccctt cccggaaagt 420
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taatgactcg ttgttctaac atttcctaga agtggtctta taaagggtcta atgtatccac 180  
aggctgttgt cttattagta aatgcaaaga aatgactttg tctgttttac tctagtcttt 240  
agtacttcaa aattaccttt catatccatg atctgagtcg attgggggat tttaagaatt 300  
gatgtattca atacacgttc aaaataaatg ttaatttag tatgagtang tagttcccga 360  
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cacgccgcct cctctgggtt cggcctccgc gcggtgcagc gcantctcag gccgcgggac 180  
aagcccgact taaatctctg caatggctaa cgaacttata cttgtccgtg ttgacttggc 240  
cacanattga ttatggaagg ctaggcgtga attcaattcc aacaatcaag gttatttcac 300  
aatccccctt gangcaggca actgtaatgt cntccanant atttgggtggc attgcccata 360  
canattntac tgaatnanc cggaatgata ccaacatgtc ccaatctttt tngggaaact 420  
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<210> 684  
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<212> DNA  
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tgggcctcag ccagccctcc ggatgctggt gctgccatcc ccctgcccctc agcctctggc 180  
attttccctcc gttgagacca tggagggccc tccccgtcgg acttgccgct cccagaaac 240  
tgggaccttc ctccctccatc ggattctccc caggctttca tcttcttcca agggcccaac 300  
cactaacntg ctttattgga cattcagggt gttccctgac acagtgggtg gtgggacgag 360  
gagtcacaga ggggagccag gggccagtgg gggttccagg ncagaaaaat tggttacagt 420  
tgcccgtgtg gtcaagggtc tttcgagtaa atgttcntaa ttttaaggga cacagcatna 480  
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anctattaca acagagagaa cattaaagta caaagaaaga cttcaaaaat gaggttactg 180  
tgatgtatca taaaaggant taaaattcaa aatatcaaag acctcaccta tcggactaaa 240



cataaatctt aaaacctcct atggtcctct gancnnaaaa ttacaaaact tagcaactgc 300  
ttaaaccnta ggaattaacg gntctgtgtt ttccaggtaa gaaaaacaaa aaatgctttg 360  
gtaaactanc ccatnatnta gttaaagtgt ttctgccccg ttttgatcnc ctccttgaaa 420  
ganagtatat aanttnccagg ccagcatata tttnaaaaaa catctcccaa atttcattta 480  
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<212> DNA

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taaaagcagc caccaattaa gaaagcgttc aagctcaaca cccactacct aaaaaatccc 180  
aaacatataa ctgaactcct cacacccaat tggaccaatc tatcaccta tagaaagaac 240  
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aataaatatt ttagtggaan aaaaaaaaaa naaantnann nnaanannna aaatannaan 180  
aagggcgggc gcnctaaagg atccaanctt acgttcgcnt gcntgcaacg tcatacntct 240  
cctatnttgt cacctaattt cnatcccctg gccgtctttt tacaaccttc nngactgggn 300  
aaatccnctn gcgttnccca acttaaaccg ccttgcaant acatcccctt ttcgccagct 360  
nggcgttntt tctaaaaaag cccgcatccg atcncccttc ccaattagtt gcnnnccctt 420

taattgggna antggggacc cccctgtntt cggntccttt taatcttcgg nggggtggtg 480  
nttgggttta ccctccacct ttgaaccttt atanttgncn atnnccccaa atnccccgt 540  
cctttccgct ttcttccct tncctttctc cctctcttcc cncgggtnt cnccggttct 600  
aatttttant cggggggctc cttttaggnt tccaattttn tgnttatcgg gtcccnccaa 660  
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<211> 195

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gtgggggtgg gagtgatgcc tcaggaacaa aactgaggaa ttccctaacg gacccagtcc 120  
ctagggaaaag aggctccct caggctctcc ttgntagann ccacacctgg cagagcctgt 180  
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<211> 283

<212> DNA

<213> Homo sapiens



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cacttcatcc caaagcgcac ctgttcctc cacttcacct tcggnagaag acacttcaa 120
ctgcggaacac acgcaaaaanc aactcccagc tctgtttgat gttactcgtt tcctcaaaa 180
gtnggcaaaa cagatatcat gctgaattcc gggggccctg tgantcaaaa tcacttcttt 240
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<210> 691

<211> 494

<212> DNA

<213> Homo. sapiens

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ctatttcagc cccacctggt gatttcacatca tgaaaaggag gaagctcaaa ctgaagtga 120  
ttaaaaactt catctcctan agaggactgt ggctcggcct ganttgagtt tttttatgtt 180  
tatgtgcaag cgcaatgaan aagaacaccc gccagactac catgaggatc aatnagcnag 240  
atgctctctg caccaccacac tcccatgaac cnaagaagat ctccnaatn tttttgatga 300  
aggaaaaatt ntgccccctt tggtnctctc cncctntggt ttnaananc attttattcc 360  
ngcttcncc ccccaaaaac cccctntntn aatgcttctt ggcccancct taaaacctgg 420  
tggcccaaaa aaaaaannaa acccctttta aaattttccc taaatctccc cccggggnaa 480  
aaaatttggn cccc 494

<210> 692  
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<212> DNA  
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cttggttagac agcncttgagg cctttgccag cagcaagagg tgaagcganc cactcttccc 120  
ccttcccctc ccncttgn 138

<210> 693

<211> 456  
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cngnaaaaca cacntggagc cagagccttc tgccgccagc cctgccctg aattggaagc 120  
agnctgtgctc tcgatgggagc gggctcccag gccggcagcc cttgccanct tcctntgcca 180  
agcctgntgc tgnagaacgg ttattgctga ggtgcccctg tccaggcctg ctaacnttgg 240  
ccacanacac atatnangcc cttggcttac agcctnaacc tnggcttcac nnctgctggc 300  
cancnagact gcttcntgnc agcattgac ttgtgttnan caagtctcac tggcanagct 360  
ggcattggag ggtgcttgctc cntggacttt gntcagaggc ctgtgncaga gtcagtttga 420  
actcnttnat gcatgctctg ggcctgagtt gcagca 456

<210> 694  
<211> 104  
<212> DNA  
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<220>  
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cagactcctt tgtggatnct tgccctgaag gngaaggnc a gagg 104

<210> 695  
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<212> DNA  
<213> Homo sapiens

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atatagcngt aaaaaatggt gtttnatctt ctatataatt cctgttttta ttattaacaa 120
aacagtccta antagcngcc ctcaattgtg aaaaaattta ctttaaacta cattaggttg 180
tgaatgcngg ttttatcaga actatgtttt ttgttcagnt tatctgntca tatggataaa 240
tattggttg gatgacttg tgctctaatgt gtagtgctac ncacctaaact tatggggccn 300
aaatagcatg tcctaattgct tgctgctgat ttaaacacat taaagggtact ttgcaggaaa 360
aaaaaattnn taagggcgcc cgctctagag gatccnagct tacgtacgag tgcntgcgac 420
gncata 426
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<210> 696

<211> 196

<212> DNA

<213> Homo sapiens

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<222> (139)

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tcagtctttt tatagatata aatcaagtag gcattatgtt ttaaaagact gacaggtaat 120  
tatatttggn aaacatttna tgcactaact ttaaagaaat tgaaaattca ggtggataaa 180  
tagnccttaca aaagan 196

<210> 697  
<211> 263  
<212> DNA  
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<220>  
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<220>  
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<222> (237)  
<223> n equals a,t,g, or c

<220>  
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ctttaacatt ttccccctgga caagtgtgta tctgttctct ccattggcat ttctacttcc 120  
agcctctggg ctctctcttc tgcctcctgc ttaggaacct gtccccctgg ggtagcttca 180

caacaccttc aaacataggc agtcagaggn ncacccgaga agggnccttc ccacgtncag 240  
gaccaaattt ctncgggaa ttt 263

<210> 698

<211> 508

<212> DNA

<213> Homo sapiens

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<222> (496)

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<222> (499)

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<222> (505)

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agcacatggc aaagtttgat ttgcactccg ttcatttctg acacgttttg ctgcctccta 120  
cctttctaaag cgtcatgcaa attcgagaat ggagaaggac gctgccggtc cctgagcggg 180  
gtggagaggg cggaaggtgg actccagcgc agcttgaggg gctgaggacg gaggctgcag 240  
catctgtgtc gttctactga gcacgcttct ctgcctcgct cctgactcag cactttgttc 300  
actggctcag cagttatggt tacacatcat ttttatggtc ctgctttgta attcatgntt 360  
gagatgggtg gccactgtac agatatttat tacgcttttc agactttctg aatagatttt 420  
tttgaataaa catgggttta tgaaagtgna aaaaaaaaaa aaaaaggggg gcccttttan 480  
aggatccaag tttacnacnc gggcntgg 508

<210> 699

<211> 651

<212> DNA  
<213> Homo sapiens

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<222> (502)  
<223> n equals a,t,g, or c

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cccactatgc ttagccctaa acctcaacag ttaaatcaac aaaactgctc gccagaacac 180  
tacgagccac agcttaaaac tcaaaggacc tggcggtgct tcatatccct ctagaggagc 240  
ctgttctgta atcgataaac cccgatcaac ctcaccacct cttgctcagc ctatataccg 300  
ccatcttcag caaacctga tgaaggctac aaagtaagcg caagtacca cgtaaagacg 360  
ttaggtcaag gtgtagccca tgaggtggca agaaatgggc tacattttct accccagaaa 420

actacgatag cccttatgaa acttaagggt cgaagggtgga tttagcagta aactgagagt 480  
agagtgcctta gttgaacang gncctgaacg cgacacaccg ccgtaccctt ctcaggatac 540  
ttcaaggacn ttactaaacc cctacgcatt atttgaggag acagtcgnaa catggnagtg 600  
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<210> 700

<211> 787

<212> DNA

<213> Homo sapiens

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<222> (33)

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tttttnncn ccatcaagg ggggaanttt antttttggg gtnaaciaac ccttgccccc 180  
nggntnaccc cggggttccc cggggaaaaa ntttnccccc ggggggttcc ggnaanccct 240  
tattgccngt tncccggggn ttttttnccc naaaaaaac aaantttntt tccccttttg 300  
nccnntttta acttgggccg cctttgccca aaagggtttt ggggggggccc naaagggtca 360  
attncccttg aancttgaaa ccggggaaaa gcttcaactt tggcattngg cccttnccgt 420  
ggtccccact tgcaaacgtg gtcaantggg tgggaacctg aacttgccgt ctaaaaaaaa 480  
acttgccaaa tattgaatga acantcaaaa aaagggtggg gaaancaaag ctngnaagg 540  
ccccttcaa aaggcaatct tggcttacac ttaacaccaa ggtggtctnc ttttgacttt 600  
naacaagnga acanccactt cttcancntt taacgcttgg ggcttgcant tgnccctcaa 660  
ccaanactt ttgtcaaagc tcaattttct tgggtattaa caaaaccaa attttggtt 720  
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aagggaa 787

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tttanngnac cca 133

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tataacactt aggactagaa gattagaaac taccaatccc aactacgtaa taggaaaaatg 180  
taggatcaaa aggcccatgt atataagtac tgaccactgg gccataatgt tgcttctcag 240  
gctatatgca gtccttttagt cagaagtcaa taggcctatt tattaatatt ttacagacca 300  
tattacctgg attaccaggg actatctttg ctgcagagat caaggggttaa gatctatggg 360  
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cacgagttat atgggaattc tctgtacctt ctgttcaatt ttgctatgaa cctaaaactg 180  
ctctaaaaaa taacctctgc tttaaaaagg tatntgtact ctatnatctt ttattagaaa 240  
tctttgttgc tatttttaca tggaaaaata cnggatgaag tccttattcc cctanaataa 300  
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ccgaggctcc gcggcgctgc cgtatcggtc cgccctgggcn ggattctgac ttagaggcgt 180  
tcagtataaa tcccacagat ggtagcttcg cccattggc tcctcagnca agcacatata 240  
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aattttatta tataaaaaata agttttaata tatattatat aaaaagtttt aataaatacc 180  
taatataatta tttaatatga taaaacttat attaaatgaa attttatgct gttctcttgt 240  
caatctgtct tttgttatct tgctggtgtg cctgtcatgt gagggactgc aatctgatat 300  
gcctattttc cacagtcaaa gcaattacaa gagaattggt acaattaccc agttatgtca 360  
agagattttt ttttaattcac taaggtagag ataangagaa tgtattaaaa ataggatatt 420  
ttaattataa atgcatnact ggngaagggg tattgntttt gaataaanat atngaggnta 480  
tttngccatg accncanaaa aaacnnaagt tngaaaaaat cccctgggaa aatttaattgt 540  
ntccttcnaa ctttttaaaa antaccctaa aaaaaatntt aatttggant taaaatcaat 600  
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gaaata 666

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cnggtccccc ccgcnggnnc cgcgcccggg gccgnggttc cggcggcgcc tcgcctcggc 120  
cggcgcctan cagccgactt agaactngtg cggannaggg gaatccgact gttaaattaa 180  
aacaagcat cncgaaggcc cgcggcgngt gttgacgcga tntgatttct gcccaagtgt 240  
ctgaatgtca agttgnanaa attcaat 267

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agtccccgga cagcccgaag cgccgcgccc gcagccccga nctccccaag nnttcgaaag 180  
cggcgcacac tcccggtctc cactcgtctt tccaacaccc gctcgtnttg gcggcagntc 240  
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<210> 708

<211> 282

<212> DNA

<213> Homo sapiens

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taatatcaat ttgtaggtaa tgttcctgaa aattgcaata catttcaatt atactaaacc 180  
tcacaaagta gaggaatcca tgtaaattgc aaataaacca ctttctaatt ttaaaaaana 240  
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<400> 709  
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tagccgcgaa ancgggaaat tcccgggggt cgaaccacg cgttccggga aaaagcttgc 120  
canaaacagg gagaaganag ganagaaaaa gggggattag ttatatcaaa aagcctggaa 180  
aggtgggaat ggacaaaaa gatggggact cctcctttat tccaagcatg ggagggggtt 240  
ttaaattggga gggatttcct ttttcctgcg acaaaacgtc ttttcacaac ttaccctggt 300

aagtcaaaat ttattttcca ggaatttaat atgtacttta gttggnatta tctatgtcaa 360  
tganttttaa gctatgaaaa tatatatnaa cttanagan 399

<210> 710  
<211> 302  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (300)  
<223> n equals a,t,g, or c

<400> 710  
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caatgcaaat gtgtcaaaga catactgttg ggtgcaatat taacaatttt aaatgcaaat 120  
ttctttggat aaattatttc tatattctgt aaatctgaga tttaatgtat attttgttta 180  
aaaaatgatt tagtaaaatc ttgaaaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaan 300  
aa 302

<210> 711  
<211> 489  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (465)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (466)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (483)  
<223> n equals a,t,g, or c

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gggtcgaccn acgcgtccgg gctccacgag gggtcagctg tctcttactn ttaacnagtg 120  
aaattgacct gcccgtagag aggcgggcat aacacagcaa gacgagaaga ccctatggag 180  
ctttaattta ttaatgcaaa cagtaccta caaaccaca ggtcctaaac taccaaacct 240  
gcattaaaaa ttctggttgg ggcgacctcg gagcagaacc caacctncga gcagtacatg 300  
ctaagacttc accagtcaaa gcgaactact atactcaatt gatccaataa cttgaccaac 360  
ggaacaagtt accctaggga taacagcgca atcctattct anagtccata tcaacaataa 420  
ggggttacga cctcgatgnt ggatcaagac attccgatgg tgcanncgct attaaagggt 480  
cgnttggtt 489

<210> 712  
<211> 121  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (88)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (119)  
<223> n equals a,t,g, or c

<400> 712  
gnattggggc ttcctttcga gggggccggg gactagggat cctgaccaca atgactgagc 60  
ctgctacatg aagngcccca cgtaggtncg gannactttg acatcttggt acctaggana 120  
c 121

<210> 713  
<211> 476  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (436)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (450)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (458)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (463)  
<223> n equals a,t,g, or c

<400> 713  
ggagcaaaca tgttttttga accttgatcat ttttgtgaag aattgcctag attccttctc 60  
tcatcaacgg gaaagtactt cctctgagag tgcgagtga ccatgctcac tgttgctgcg 120  
tgggagagtc acaagccact ggcaagcaag tggtagatgc tgtgaagcac tgcagcgagc 180  
agcacctgga tcttgccctt ataagaacat ttactacct gcagctttga gtcttgccct 240  
acatthttggg catgacataa gatgtgtctt tattcagctc gtcgtgaaga tgctgctgct 300  
gaatgggtca gcatatctct gtttgcattg tttgcangaa gtcgggtttc atgggtcattc 360  
agtthccaca gatcttgaat gattactggc tggctgggtc tttttttcca tgagaaaatn 420  
actggtgcaa aattgnccta taaaattggn ctttactnaa atnaccaatg gtttaa 476

<210> 714  
<211> 527  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (9)  
<223> n equals a,t,g, or c

<220>  
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<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (79)  
<223> n equals a,t,g, or c

<220>  
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<222> (80)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (414)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (419)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (483)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (516)  
<223> n equals a,t,g, or c

<400> 714  
ccctttgant atacngaaa gctggttcgc ctgcaggtac cgggccggaa ttccccgggc 60  
gacccacgcg tccgcccann ccactccac cttactacca gacaacctta gccaaaccat 120  
ttaccccaat aaagtatagg cgatagaaat tgaaaccttg cgcaatagat atagtaccgc 180  
aagggaaaga tgaaaaatta tagccaagca taatatagca aggactaacc cctatacctt 240  
ctgcataatg aattaactag aaataacttt gcaaggagag ccaaagctaa gacccccgaa 300  
accagacgag ctacctaaga acagctaaaa gagcacacc gtctatgttg caaaatagtg 360  
ggaaagattt ataggtagag gcgacaaacc taccgcagcc tgggtgatagc tggnntgtnc 420  
aagataagaa tcttagttca acctttaaat tttggccac anaaccctnt aaattccctt 480  
ggnaaattaa ccggtangtc caagagggac caggtnttgg gaccctt 527

<210> 715  
<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 715

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gaaacccact ccaccttact acntgacaac cttagccaaa ccatttacc c aagntaaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattatagcc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagacct ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctgggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgccacag aacctcttaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag tctttggcac taggaaaaac cttgtagaag agagtaaaaa attaacaccc 480
atagtaggcc taaaagcagc accaattaag a                               511
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<210> 716

<211> 81

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<400> 716

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gggtggcatg aggangtccc acttgcaact tctttctgnt gagagaacct taggtacgga 60
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gaagaataga gggncnctnatg g

81

<210> 717

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (72)

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<221> misc feature

<222> (104)

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<220>

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<222> (115)

<223> n equals a,t,g, or c

<220>

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<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c



<220>  
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<222> (195)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (201)  
<223> n equals a,t,g, or c

<400> 717  
tnggtncata agcatcttcn tggaatcgta ttataaaatt gaaattagat atagagaatg 60  
ttttaacact nntttaactc aaaatttgta atcattctta atancatctt tcttnatcaa 120  
aagaaanagg aatttaataga caggcagaca ctctttttaa acttattcac aaanccaat 180  
aactgcacaa aatgntatta nctgcctg 208

<210> 718  
<211> 562  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (557)  
<223> n equals a,t,g, or c

<400> 718  
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tgccaggggc tgagtgcctag ggactcgtca tgagtgggga tccccacgtt cctgtcactg 120  
ctgtcaaaca gaaggtaaac agtcttatga atgtatttcc ttaggaaaac ttgtaaaaac 180  
ttttattagg atatctattt aatactgaac ttggcctac ttgtgatag actataaaca 240  
aattgaggaa atcactattt ctcaattctg tattttotca aaaataattt tgttacagag 300  
ttcaatatac tgtgtaccat tgatcttcta ttgtgaaagc aaagaatttc atcaaaatat 360  
tttaaattat gagtgaataat tgtgtatgtt aattttgcag ctataatatt aatcaaattt 420  
tgtgtaattc taatcacaaa atgacgtgcc ttaagtgcc ctccagctgt gggttggcag 480  
tgtccggaca gggagggcc atcaccgaaa tcctgaatga ttactagacc aattctatta 540  
aaaacatttc aaggcanaaa aa 562

<210> 719  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (470)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (501)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (530)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (534)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (555)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (578)  
<223> n equals a,t,g, or c

<400> 719  
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ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120  
aattatagcc aagcataata tagcaaggac taaccctat accttctgca taatgaatta 180  
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240  
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtggaag atttataggt 300  
agaggcgaca aacctaccga gcctggtgat agctggtgt ccaagataga atcttagttc 360  
aactttaaat ttgcccacag aacctctaa atcccttgn aaatttaact ggtagtccaa 420  
agaggaacag gtttttggac ctaggaaaaa ccttgtgaag agagtataaan tttaacaccc 480  
tagtaggcct aaaagcagcc nccaattaag aaagcggta agcttaacan ccantaccta 540  
aaaaatccca acttntactg gacttcttac acccatng 579

<210> 720  
<211> 403  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<400> 720

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gaggaacagc tctttggaca ctaggaaaaa accttgtaga gagagtaaaa aatttaacac 120  
ccatagtagg cctaaaagca gccaccaatt aagaaagcgt tcaagctcaa caccactac 180  
ctaaaaaatc ccaaacatat aactgaactc ctacacccaa ttggaccaat ctatcacct 240  
atagaagaac taatgttagt ataagtaaca tgaaaacatt ctctccgca taagcctgcg 300  
tcagattaaa acactgaact gacaattaac agcccaatat ctacaatcaa ccaacaagtc 360  
attattaccc tcaactgtcaa cccaacacag gcatgctcat aag 403

<210> 721

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<400> 721

ggacacttct tcatctcacc cccccccgcc cccctctagg agagctggct ctgcagtggg 60  
ggagggatgc agggacattt actgaaggag ggacatggac aaaacaacat tgaattccca 120  
gccccattgg ggagtgatct cttggacaca gagcccccat tcaaaatggg gcagggcaag 180  
ggtgggagtg tgcaaagccc tgatctggag ttacctgagg ccatagctgc cctattcact 240  
tctaagggcc ctgttttgag attgtttgtt ctaatttatt ttaagctagg taaggctggg 300  
gggaggggtg ngccngggtg cnnttag 327

<210> 722

<211> 202

<212> DNA

<213> Homo sapiens

<220>  
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<222> (48)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (54)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (63)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<221> misc feature  
<222> (73)  
<223> n equals a,t,g, or c

<220>  
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<222> (165)  
<223> n equals a,t,g, or c

<220>  
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<222> (176)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (182)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (201)  
<223> n equals a,t,g, or c

<400> 722

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ccngntcccc ggnccggccc ccgtcccgcc ccgccccaga tccgctgggc cgccatggag 120  
cgctggcctt gaccgtaang gcggcgccctg gctgctcgtg gctgnccgcg cgctgntgca 180  
antgctgagc tcagacctgc nt 202

<210> 723

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

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<222> (66)

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<220>

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<222> (72)

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<221> misc feature

<222> (94)

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<222> (113)

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<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (154)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (155)  
<223> n equals a,t,g, or c

<220>  
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<222> (203)  
<223> n equals a,t,g, or c

<220>  
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<222> (246)  
<223> n equals a,t,g, or c

<220>  
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<222> (274)  
<223> n equals a,t,g, or c

<220>  
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<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
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<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<400> 723  
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ggcttncgtg ancgttaatt tcaggaaaatc ctangcaa atgcagttac tgntctagaa 120  
gatanatagg tagtgtgtac tgtgatggaa attnnaatgt cactgttaaa aggtttgcat 180  
tttgtgggct tggaagggcc tanaacttcc ttcttaggct ttctcttcac taagtgggct 240  
cttgcnttat attacttcca gagaaaggca ggcnggatta gaggcattggt aaggnganca 300  
atttggggaa atacctatac tgtgcaaaag agncnaagga caacctttta atgg 354

<210> 724  
<211> 310  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (22)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (151)  
<223> n equals a,t,g, or c

<220>  
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<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (204)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (239)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (248)  
<223> n equals a,t,g, or c

<220>  
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<222> (296)  
<223> n equals a,t,g, or c

<220>  
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<222> (297)  
<223> n equals a,t,g, or c

<400> 724

gctacctcgg tgcgcgcccc gntcgcaggc cccgccagaa ggcccgtggc cacggcgaat 60  
acggcgcggtg cgtccccggc ccagggtccg gcagccccgc cggccgagcg cctccctgcg 120  
gcctagccgg gcccggccgg gccggagcag nttcccacgg cccccacccg ntcgcctgcc 180  
cgccgcctcg cgggtggggg cggngcgcgg gctccanccc cttttgaaat ttgagtctng 240  
caaccagnaa gttcggaatc ccgagatacc ggatcctctg cgcaaaatgt tttctnncca 300  
aggtgaaagg 310

<210> 725

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

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<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<400> 725

gcggacgcgn gggcggggcg gcgggcggcc atgaggctcg ngcggcgng gcggggcg 60  
taggncggcg ggcccgggga gggggcggn agggcatgt 99

<210> 726

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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agtncccaac ctgggccctg ctgagcagga ncagaacctac tacctgcccac gctgtttggc 120  
tgtacggcga gaatgnacg ctgactgcaa ggggcttggc gcggttttcc acaacctgng 180  
gctangncaa gttcaagggc ttcnactg 208

<210> 727  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (422)  
<223> n equals a,t,g, or c

<220>  
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<222> (433)  
<223> n equals a,t,g, or c

<220>  
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<222> (438)  
<223> n equals a,t,g, or c

<400> 727  
ggaagacaag ttcttgactc tatgttgagg ccagttgaaa aatgagggag aataaaacca 60  
tgaacgaaac aagaaagaaa caaaacagaa gaggaatgaa aaagacataa tgatgtcatc 120  
caagccaaca agccatgctg aagtaaatga aaccataccc aacccttacc caccaagcag 180  
ctttatggct cctggatttc aacagcctct gggttcaatc aacttagaaa accaagctca 240  
gggtgctcag cgtgctcagc cctacggcat cacatctccg ggaatctttg ctagcagtc 300  
accgggtcaa ggaaatatac naatgataaa tccaagtgtg ggaacagcag taatgaactt 360  
taaaagaaag aagcaaaggc actagggggg gatncagatc atggntggat tgatgccatt 420  
gnnttggaat tgntttgngt t 441

<210> 728  
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<212> DNA  
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<220>  
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<220>  
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<222> (99)  
<223> n equals a,t,g, or c

<220>  
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<222> (149)  
<223> n equals a,t,g, or c

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<222> (231)  
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<220>  
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<222> (264)  
<223> n equals a,t,g, or c

<220>  
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<222> (284)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>

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<222> (363)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (397)  
<223> n equals a,t,g, or c

<220>  
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<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (416)  
<223> n equals a,t,g, or c

<400> 728  
ctcaagtctc ttttctgccc aaaaagggaa aagtgataga aatgggggtg gcaagtgggg 60  
tgagtggatg aaggtgggta ttgggggtgg ctgtnaaana aaataatgga gaatcacttt 120  
tctatacatc tacctatact taatctaana aacaaagtaa tctactgtaa agtactctgc 180  
cccttgaaag aagtattaaa aagagtgagg atggatttaa aaaaaaacat naatttagaa 240  
atnttcaaaa tggtttttgt ggnagattc ctattatgaa ttcncacatn tttaaagaat 300  
gagaacata nttattngtt aaaaatncca aaaacagttc ctgggttcct cttgttnttt 360  
ganaactaaa aaaaatacca gagtgttgga atctccnaaa ccnatgaaat cccccnaaat 420  
tttaaggac 429

<210> 729  
<211> 260  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (54)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (89)  
<223> n equals a,t,g, or c

<220>  
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<222> (103)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
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<222> (120)  
<223> n equals a,t,g, or c

<220>  
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<222> (150)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (188)  
<223> n equals a,t,g, or c

<220>  
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<222> (195)  
<223> n equals a,t,g, or c

<220>  
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<222> (251)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (259)

<223> n equals a,t,g, or c

<400> 729

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tggtacccct gcaggtaccg gtccggaatt cccgggtcgn tccacgcgtc cgnnctntat 60
caaatgtttg ccagaattca cagtttagng catctaaatc canntatata gaaagcgctn 120
ttttcttttt ctttcttttc ttttttttn tttttttta agatggactc cacgttgcca 180
aggctggnaa tttgnttcct cttgatcaat ataaagacgt ttcaacatta ttgatctctt 240
tagagtttgg ntatantant                                     260
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<210> 730

<211> 136

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 730

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gcggancacc atatngaacg ggagacctgg tgactagaca tcaagcaang nactatgcac 60
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caagaatata aaganggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aanaaaaaaaaa naaaaaa 136

<210> 731  
<211> 110  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (25)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (34)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (110)  
<223> n equals a,t,g, or c

<400> 731  
nccctagaac ccagccagg accgnggagg ccngaagac ccccatcaag gaggagctgg 60  
nggcagggaa aacctacagg cgntgagaga gaggccgcag caagaagcan 110

<210> 732  
<211> 639  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (222)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
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<222> (387)  
<223> n equals a,t,g, or c

<220>  
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<222> (457)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (514)  
<223> n equals a,t,g, or c

<220>  
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<222> (577)  
<223> n equals a,t,g, or c

<220>  
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<222> (579)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (588)  
<223> n equals a,t,g, or c

<220>  
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<222> (607)  
<223> n equals a,t,g, or c

<220>  
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<222> (639)  
<223> n equals a,t,g, or c



&lt;400&gt; 732

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gataaacaat aaaatattgt gaacatcttc attagaatat ttttgcagc tttggaggta 60
ggatctagat aaaagttttt aggctaacc aaatatttta tcttcagtaa tgatatgcct 120
tttgctgtgt atgacatctg aaatgtggat aatactgaaa cgctctcagt cttaaaactta 180
taagctacac taaaatctaa ttaatgaatt gctgtaaaag tngttgatta ttaataaag 240
ctgtagnntt taacttttta tctgctgcct cttgtgttca tttcctttta aagggtgattg 300
gtttctgttt gtcatacaaaa cataaaaacc ttaaaggagt cttacagatt ttttgtgctg 360
ntaggtggct tttcccttct ggctctnttt ttttaacaa taattaataa ctaaaatatt 420
tatgtcttat tgaatatctt atggtataat aacatanttt atcttaaaat aatcaaataag 480
gatattcatg gatttttaga tctgtcttgt gagntgtgac agatttattc aataaacatt 540
tattgagtc cctatcaact acttgggtacc aaagaanana gatgaatnaa tcttgggtctt 600
tcaaaaangct ataggctatt ggggggaaat agggatggn 639
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&lt;210&gt; 733

&lt;211&gt; 380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (40)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (44)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (58)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (306)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 733

```
gaattcattt tnttcttatt aaggaaatac tttgcataan gggnatcatt cccagagngc 60
tttaccaaaa ttctcttaaa taaaaataat agactcgcta gtcagtaaag atatttgaat 120
atgtatcgtg cccctccggt tgtctttgat caggatgaca tgtgccattt ttcagaggac 180
gtgcagacag gctggcattc tagattactt ttcttactct gaaacatggc ctgtttggga 240
gtgcgggatt caaagggtgt cccaccgtg cccctactgc aaatggcagt ttaaatctta 300
tctttnggct tctgcagatg gttgcaattg atccttaacc aataatggtc agtcctcatc 360
tctgtcctgc ttcataagggtg 380
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<210> 734  
<211> 311  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (27)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (128)  
<223> n equals a,t,g, or c

<400> 734  
ttaactgnaa tcntctacta taggttnagc tggtagcgcct gcaggtaccg gtccggaatt 60  
nccgggtcga cccacgcgtc cgcggacgct tnggttggtg gccaggaaa ggtatatagt 120  
aaaagtnta aaccatgtca actgaagtga gtgtaatctc agatatcaac attattatat 180  
tttaaaatca cgctatggaa atatcacctg aattctgtca tttgtcagat ttacagtacc 240  
tttttttctt taacttttag cattaaataa aaataaaatt gggagcactg aaaaaaaaaa 300  
aaaaaaaaaa a 311

<210> 735  
<211> 361  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
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<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (331)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<400> 735  
gtaccgctgc cgccgtctct aaggctgccc gggtcccacc gccgccacca tgcctcgggg 60  
aagccgcagc gcggcctccc ggccagccag ccgccccgcc gcgccctctg cccaccgcc 120  
cgcgcaccca ccgcccctcg cagccgcccc agccccgcc ccttcggggc agncggggct 180  
catggctcag atggcgacca cggccgcagg ggtagccgng ggctcggctg tgggacacgt 240  
catgggcagc gccctgaccg gagccttcag cggggggagc tcggagccct cccagcctgc 300  
tgtccagnag gccnccaccc ccgctgnccc ncagcccctg canatggggc cctgcgccta 360  
t 361

<210> 736  
<211> 388  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (38)  
<223> n equals a,t,g, or c

<220>  
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<222> (43)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
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<222> (64)  
<223> n equals a,t,g, or c

<220>  
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<222> (85)  
<223> n equals a,t,g, or c

<220>  
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<222> (109)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (153)  
<223> n equals a,t,g, or c

<220>  
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<222> (161)  
<223> n equals a,t,g, or c

<220>  
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<222> (164)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (170)  
<223> n equals a,t,g, or c

<220>  
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<222> (187)  
<223> n equals a,t,g, or c

<220>  
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<222> (231)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (332)  
<223> n equals a,t,g, or c

<220>  
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<222> (345)  
<223> n equals a,t,g, or c

<220>  
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<222> (378)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

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cctnaacatt tgacttcatt gtggncaata atggtctctg aattgattna gacattcaca 120  
cagcttgaag aaaatctaaa agatgaanat gantcattga naancaccnn caaagtaaac 180  
agaattnaag tttcagtccc ggatgcaa at ggaccctcag tgggggagat nccccanagt 240  
gaactcatct tgtattttatc agctngcaaa ttcttggaca cagcagcttt cttttncacc 300  
tgacaagatg ccattatttc aaatttatac gngggcattt attcnagaag tggacacata 360  
gggccctgtc ttctgttnat gtanagga 388

<210> 737  
<211> 146  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (32)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
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<222> (96)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (102)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (124)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (133)  
<223> n equals a,t,g, or c

<400> 737  
ggtaaatcaa agttttgggt ggaagtgttg anaagtatga gttttttgtt gtttttgttt 60  
tacttaaaan ttttaattta tccagaatgg cagtancttt ancaagcaga tggtcacaat 120

ctgnttttcta aancattttt tattaa

146

<210> 738

<211> 101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

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<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<400> 738

ggtgagagnc tcattttctat gcacagtgtt tctgaggagg atgganctag atagctgtct 60

gttgtcntgt agcccaagct tgataatgga actatccang n 101

<210> 739

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

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<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (23)  
<223> n equals a,t,g, or c

<220>  
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<222> (30)  
<223> n equals a,t,g, or c

<220>  
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<222> (458)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c

<220>  
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<222> (494)  
<223> n equals a,t,g, or c

<220>  
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<222> (530)  
<223> n equals a,t,g, or c

<220>  
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<222> (541)  
<223> n equals a,t,g, or c

<400> 739  
tanggtctcn agggnccttct acnggaaacn ctactatat tgaaagctgg taccctgca 60  
ggtaccggtc cggaattccc gggctaaata tgaaaataag tcatttgaaa aaaatacagt 120  
atgtaaaatt tgttcattcg ttgaggtaat ggtgctatgt ttttacaaaa ttgttcctac 180  
accttttttc tacttcaggt attttatttc aaccatttcc atcaattgaa ctgttaccat 240  
tgcccttttc tgttgagaaa ttgcctctga aaaatagtcg tatttttcag ctttaagtgtt 300  
cttaagtga tgaaatttcc aaagtactag atcaccttaa aattatttca cgtactgaag 360  
acaattaagt ccgttatgtt tagagtagaa aatgtttagg ttaaagagca tctgtcaaca 420  
gaatctacaa aaaagattcc cttgcatttg aattaagntc tctattctcc tattgctaaa 480  
tgtgngatat atanagagga tgtataaaag gaaatggaaa tagactatgn acttggtgctgg 540  
nt 542



<210> 740  
<211> 184  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (175)  
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<400> 740  
aattcccnac tcnagtttag gctngtacct ctgcaggtag cggtcaggaa ttcccgggtc 60  
gacccaacgc tccgtcnngc tccgtgcgg cgccccaact gctgatngag ctgctgggcc 120  
tnagcgtctt gctgcagnga gatccaggga agctggcaca tcttgaagg nccgncctgc 180  
tcgg 184

<210> 741  
<211> 231  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
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<400> 741  
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cagccccacc ccaggacttc catgaagtag aggacttgat aaagactgcc ataggcaaca 120  
cactggtcca ggacatctga tattctccag atacccaaaa gctcctngtn cgnctnagtg 180  
acgattacaa caggacgttt ctggagaacc tgaaagtga caccngagaa t 231

<210> 742  
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<213> Homo sapiens

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<220>  
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<220>  
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<223> n equals a,t,g, or c

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ttttcnttta tacttttgtt tatttttctt gnttatnaaa acngccaaca attgcnttt 119

<210> 743  
<211> 580  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (515)  
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<222> (562)  
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<222> (563)

<223> n equals a,t,g, or c

<400> 743

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ttctccctc ctttaattaa tggaatcttc tgaattttcc ctgaatgttt aaagatcatg 120
acatatgact tgatcttctg ggagcaggaa caatgactac tttttctggt gtgttaacat 180
gtcgttagcc agtgctccag gcacccagct ttgtctgtgg gttagtattg gtgtatgtat 240
gagtatctgt atgtatatat acanggtatt tatagagaga gactatcctg gagaagcctc 300
gttttgatgc cattcttctt tgcaaggtta agcaaggngg gtggaaacta agacacctga 360
acctncang gccttccgca tcaangtcag catgangaca gaccacagag ctgcactttt 420
gctccgaagc tacttttcac tgncccggtc aatctgantg ctgccacaac cagtcagggc 480
cgtcacagag agggagagnt gagaaagaag tcttnctctt tattgagttc caagactacn 540
accaattaca ctggcttttg annccgtgat cctgatccaa 580
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<210> 744

<211> 225

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

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<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<400> 744

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cgaacaagac atgaaaagag nggtgacaaa tcaagaataa acactgggtg tagtcagttt 60
tgtttggtga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaggggggn ccngttnaan gggnnc 225
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<210> 745

<211> 338

<212> DNA

<213> Homo sapiens

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<220>

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<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

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<220>

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<222> (58)

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<222> (62)

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<220>

<221> misc feature

<222> (175)

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<220>

<221> misc feature

<222> (316)

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<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<220>

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<222> (334)  
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<220>  
<221> misc feature  
<222> (336)  
<223> n equals a,t,g, or c

<220>  
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<222> (338)  
<223> n equals a,t,g, or c

<400> 745  
nagctggtac gcctgcaggt accggtccgg aattcccggt tcgacccang cgtecntnaa 60  
antaaagggt ctacagaaac actcattttt atgctgttcc ctcttgggct tcatgcaaag 120  
acaattctgt gtaaatgtac agttgactct gatttggaaa tatgaaaatc agtcnaccct 180  
tggtataaaa aattttttta caattgtaat tatattgatg ttcattattgt gtaaaataac 240  
tcatttaata aaatagtact ttgatattacg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
aaaaaaaaaa aaaaanaaaa naaaaaaaaa aggnangn 338

<210> 746  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 746  
ggtttcagtt gagccctgga actcctaaac ctttgcccct ggggcttcca tcccaaccag 60  
tgccaaggac ctccctcttc cccttccaaa taataaagtc tatggacagg gctgtctctg 120  
aagtactaac acaaggaaaa aaaaaaaaaa aaaaaaaaaa 160

<210> 747  
<211> 218  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (198)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (213)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (218)  
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<400> 747  
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gccttacttg ttataaaaga taaataaata ttgttcatt tcaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaangg 180  
gcggccgttt taaaggancc aagnttacgt acncgtgn 218

<210> 748  
<211> 265  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<222> (106)  
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<220>  
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<220>  
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<220>  
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<222> (186)  
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<220>  
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<220>  
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<222> (258)  
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taagatctga ttggacncgn angataatcc tgagaattgc taatanntca ctgggtttgg 120  
nccttantgt tgacttcagt atgctgagan ggngaccanc ncgcctagag ctaangcttg 180  
atgacnttga agagtttgag aacatttnaa aggacctgga gacccgtaag aaacagaagg 240  
aagatgtgga agttgtanga ggcaa 265

<210> 749  
<211> 156  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (92)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (107)  
<223> n equals a,t,g, or c

<220>  
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<222> (132)  
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<220>  
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<222> (146)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (156)  
<223> n equals a,t,g, or c

<400> 749  
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aaccaggccg gtgggggctc tgtgagcccc tntgcacagg aagcctnaga gactctgcat 120  
ggtgttcccg gngcatcctg gccaangtgg gagaan 156

<210> 750  
<211> 174  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
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<222> (165)  
<223> n equals a,t,g, or c

<220>  
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<222> (173)  
<223> n equals a,t,g, or c

<400> 750  
ggtcatgcac tcctacactt aaagaataaa ctatgttcta actgccacaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaangggng gccnntttaa agna 174

<210> 751  
<211> 74  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (67)  
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<400> 751  
ccagtcctca cccatggcat gccccctgcg atcaggccat tnnnctcctc gtggtcattc 60  
tccacangta ctcc 74

<210> 752  
<211> 210  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (155)  
<223> n equals a,t,g, or c

<400> 752  
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gttctgggaa gccctgggat tctgtanta cctatcactg taggtgctga agggaaacag 120  
atgaaaacat gacctcaagg agcttctgta atganaaacc aagctgcgct ggaaagattt 180  
aaaggacctg aactgtcttg actctttgat 210

<210> 753

<211> 313  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 753  
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tatgtaagaa tatgtgatgg gtgtagtcat tagcaaagca tttaaatcac ttgagtattt 120  
tgatcatggtt cattattatt aaagcacaaa ataacctatt gttagaaaat atgtgttttt 180  
ataaatgaat gtaaaataat taaatgaatt gtgaaatgga tgtttaagaa aatataggct 240  
taaaaagtaa atctataaaa tgatgtctta aaacagccat atcatgaaaa attctactta 300  
gctatattan tnn 313

<210> 754  
<211> 445  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (96)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<222> (165)  
<223> n equals a,t,g, or c

<220>  
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<222> (181)  
<223> n equals a,t,g, or c

<220>  
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<222> (198)  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (345)  
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<220>  
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<222> (355)  
<223> n equals a,t,g, or c

<220>  
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<222> (364)  
<223> n equals a,t,g, or c

<220>  
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<222> (421)  
<223> n equals a,t,g, or c

<220>  
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<222> (429)  
<223> n equals a,t,g, or c

<220>  
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<222> (444)

<223> n equals a,t,g, or c

<400> 754

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gacaggattg gccgaggtcc tcnnngtgct gtngcnnacc cnacagcnag gcnacnttca 120
ataccnangg ttctgggtcc anctggaatc catgaanaan ctgantgacc tggaggcaca 180
ntgggcaccc agcccccnc c tggagcccn naancttctg gccgccgtgt gccaccaccc 240
tgctctgnet ctgagatagc cctgggtacc ctgagccac canggacacc tcgcccttna 300
gccaccacc ctggcaggct ttcattcccc tccatgctca agannngtcc ctggncacca 360
tggncattac cacccttcag ggcctgagca gctggatctg gtacaaagca atcggacata 420
nagttggang gggaagcccc tgang 445
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<210> 755

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 755

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ggagccaaag ctaagacccc cgaaaccaga cgagctacct aagaacagct aaaagagcac 60
acccgtctat gtacaaaaat agtgggaaga ttataggtg gaggcgacaa acctaccgag 120
cctggtgata gctgggtgtc caagatagaa tcttagttca actttaaatt tgcccacaga 180
accctctaaa tccccttgta aatttaactg ttagtccaaa gaggaacagc tctttggaca 240
ctaggaaaaa accttgtaga gagagtataa aatttaacac ccatagtagg cctaaaagca 300
gccaccaatt aagaaagcgt tcaagctcaa caccactac ctaaaaaat ccaaacatat 360
aactgaacte ctacaccca attggacca tctatcacc tatagaagaa ctaatgtag 420
```

tataagtaac atgaaaacat tctcctccgc ataagcctgc gtcagattaa aacactgaac 480  
tgacaattaa cagcccaata tctacaatca accaacaaga aaaacannnn n 531

<210> 756

<211> 540

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (493)

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<220>

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<222> (496)

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<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

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<222> (498)

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gtaggggaca agatgccaac tggcaagcag ctactgtaca ttggctataa gaccttctct 120  
acctccatga tgcttctcac tgtgtatggg gggtagctct gcagtgtccg agtctaccac 180  
tatttccagt ggcgagggc ccagcgccag gccgcagaag aacagaagac cttaggaatc 240  
atgtagaact ggggggcttt ttctcctgag cagagaggcc caaggcatgc tgtggagaga 300  
cttcacctgc caccatttcc aggtcaacag gactagagcg ttgatggttt tcaaaccctg 360  
ttggaagaaa gtgcccattg ttctctctgt tctgccagtt tgacaagttt atggaggctt 420  
ttgaatcgta atagcaatgt gagggtagg gacaccctac agacattaaa taatttgctg 480  
gtgaaaaaaa aanaannnaa aaagggggcg gccggtttta aaagatccaa anttacgtac 540

<210> 757

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ctcttcaaga ggcactctctg gtcttgtagac gagacctctt caaaaaccca cagtaaaaact 180  
ccccccctc cagttggcca ccagtctgcc accaaacatg aacaaattct gctgctaatac 240  
ggtttccctt gtgatctggt tcctgaggtc ttcggatctg tgcaatgaat tatttattgt 300  
tttattaaac cgacagtggg gtcccagaga ggaaccataa ataaaatgga aatctggtgc 360  
tgtgataaag taataactag cattaatgag acctggtttt cctttcagaa aggnacagtat 420  
acctgtaaca aaggntaaag caatttatat ttaatttgca ttctgatggt aacatttaaa 480  
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taaaatttnt ganccacctt 560

<210> 758

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tgtaatataa ttgagatgaa atgntctctg gttggaacag actctctctt tattttnttg 120  
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taacaggcat cttcttctc 80

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ntaactctgt cttgacgcgn ggactgcctg gcacatagta ttcattctct tccctttaac 120  
atanaagtgt ncagctgcgt acagtctntc naccagcaan tgtnaacgaa cctgtgcctn 180  
taanaagcna ttctaaacca cctatgagta tttcttttan ggctcactta aatacatgtn 240  
tgtatattct gtattctant cagaataatc tatatctgat cnaggt 286

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tattcatacg taaaattttg gattaattng ngaaantgta attataagct gagaccggtg 120  
gntctcttct taaaagcacc atattaaatc ctggaaaact aaaaaaaaaa naaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa atgnaaa 207



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nacagcctta cttgtaanct tntggaacc acccaccact gccaaagtca ctattgaatc 120  
cangccattc antgtcgcan aggggaagga ggttcttcta ct 162

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actcaacggc tacatagaaa aatccacccc ttacgagtgc ggcttcgacc ctatatcccc 120  
cgcccgcgtc cctttctcca taaaattctt cttagtagct attaccttct tattatttga 180  
tctagaaatt gccctccttt tacccttacc atgagcccta caaacaacta acctgccact 240  
aatagttatg tcatccctct tattaatcat catcctagcc ctaagtctgg cctatgagtg 300  
actacaaaaa ggattagact gaaccggaat aaaaaaaaaa 340

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cgtccctttc tccataaaat tcttcttagt agctattacc ttcttattat ttgatctaga 180  
aattgccctc cttttacccc taccatgagc cctacaaaca actaacctgc cactaatagt 240  
tatgtcatcc ctcttattaa tcatcatcct agccctaagt ctggcctatg agtgactaca 300  
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cccgccgcgc tccctttctc cataaaattc ttcttagtan ctattacett cttattattt 180  
gatctaaaaa ttgccctcct tttacccta ccatgagccc tacaacaac taacctgcca 240  
ctaatagtta tgcctccct cttattaatc atcatcctac cctaattctg gctatgantg 300  
actacnaaaa ggattanact gaaccgaata aaaaaaaaaa aaaaaaaaaa atcccanggg 360  
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ccccgcccgc gtccctttct ccataaaatt cttcttagta gctattacct tcttattatt 180
tgatctagaa attgccctcc ttttaccct accatgagcc ctacaaacaa ctaacctgcc 240
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cttggttttta tttctgatct aacacccctt ttaaatggat caagccaaga cagaatgttt 180  
gtgacaacgg tgcttgagat tgaacaactt ttggcaagg taggtgtttt aaaggactct 240  
atttaagtaa tgggtttcct ttaactgaac ttttagttc tgatctaaca ccccttttaa 300  
atggatctgc caagacagaa tgtttttgac aatggtgatt gatactgaac agcttttggg 360  
caagcgtaa gtgcttcctg ctaaattgnt attttgcnaa ttaatgtgt ctccttaaat 420  
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actggtcata cgcccttgag aagggtagtc tcgggatgcc gtccgaagtc ggcgacagg 180  
ccggggcgca ggcgcccgtg cggaatggca gatatttagc ttcctgtggt atactgatga 240  
gcagaactct tccactacat acctcaattt tgcctaagga gatatgtgca cgaactttct 300  
tcaaatcac tgcaccatta ataaacaaaa ggaaaganta ttcagagaga agaatttttag 360  
gatattcaat gcaggaaatg tatgatgtag tatcgggagt ggaggattac aagcattttg 420  
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gaatgaagtg aggccagtg gccgggtcct cttgagttcc gcagcactta gacttacgtg 120  
caccctttca tcaggtncag gcccagttg tcaacccttc cagaacattt tcccatggat 180  
tttgcggtat ttgacttttc aagattcaag agtcttaata atccngttgg gcaatttttg 240  
gnaaanttg acccagtc aa ngtttttaaa attccntccc caaggccttc cagccttggg 300  
gggttccaag gttttccga agggcccant cntaccagct ccttttttta aanggcgnat 360  
anccagttga gcatatgact attgtttccc aattaccag 399

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atccactgtg ggttttggtt tcgccgtcac cccactgcct cactggattg tgaggatcat 180
atgcgacaat gtatttgaaa acgactagaa cattatcgga ggaagggtga ctctgaagta 240
gtcgtgtag actatggatg tagaacaagg gtttggagcc cttcggacat ggttctaacg 300
cggcctgact tcttgctggc tacatgacct tggactacat aatcacgcct cttaaatggg 360
aggtgatgac agctatcctt gaggacctta gagagaactg atttcttagt acccagcctc 420
acaaatagtg catcacttca tggagttatg ttgggataaa tgtgtggaga agccaggga 480
tcgcctagac tctcgactg aaaattgtct ctccagctgt gtagaccgnt tcattgacac 540
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aaaaanaagc tatagaaagg ttaaaggcat taggatttcc tgaaggactt gtgatacaag 120
cgtattttgc ttgtgaaaaa aatgagaatt tggtgcca ttttcttcta cagcagaact 180
ttgatgaaga ttgaaaggga cttttttata tctcacactt cacaccagtg cattacacta 240
acttggtcac tggattgtct gggatgactt gggctcatat ccacaatact tggataaagg 300
taataaattg ttgggggtgg ggaagggaagg atctaggata caggcaggat aatacatgca 360
ttctctccat tacaatccgc actccacnt gtgtnaatat tacaccaa cactttgcag 420
tcttattctc tntaaacnta gtacttccn gt 452
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<210> 772

<211> 631

<212> DNA

<213> Homo sapiens

<220>

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<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

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<220>

<221> misc feature

<222> (451)

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<220>

<221> misc feature

<222> (552)

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<221> misc feature

<222> (559)

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<220>  
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ctgttgctgt accataactca tctgtcccac acagatagag ggtgttccac tggcggaggg 120  
actaaccccc caggagatct gcgacaagta ccacatcatc catgctgaca tctaccgctg 180  
gtttaacatt tcgtttgata tttttggtcg caccaccact ccacagcaga ccaaaatcac 240  
ccaggacatt ttccagcagt tgctgaaacg aagttttgtg ctgcaagata ctgtgganca 300  
actgcgatgt gagcactgtg ctgccttcoct ggctgaccgc ttctgtggaa ggcgtgtgtc 360  
ccttctgttg ctatgaagan gctcggggtg accagtgtga caagtgtggc aagctcatca 420  
atgctgtcga gcttaagaag cctcagtgtt nagtctgccg atcatgccct gtggtgcagt 480  
cgagccagca cctgtttctg gaactgccta agctggagaa gcgactggag gaatggttgg 540  
ggaggacatt gnetggcant gatggacacc aatgccccagt ttatcaccgg ttcttggctt 600  
ccggatggcn ncancacct gcttaaccga n 631

<210> 773  
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<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (501)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 ngtggatttta cttgtcgaca aaagggcatct cttaattggc acatgaagaa acatgatgca 60  
 gactccttct accagtttct ttgcaatata tgtggcaaaa aatttgagaa gaaggacagc 120  
 gtagtggcac acaaggcaaa aagccaccct gaggtgctga ttgcagaagc tctggctgcc 180  
 aatgcaggcg cctcatcac cagcacagat atcttgggca ctaaccacaga gtccctgacg 240  
 cagccttcag atggtcaggg tcttctctct cttcctgagc ccttgggaaa ctcaacctct 300  
 ggagagtgcc tactgttaga agctgaaggg atgtcaaagt catactgcag tgggacggaa 360  
 cggttgagcc tgatggctga tgggaagatc tttgtgggaa gcggcagcag tggaggcact 420  
 gaagggtcgg ttatgaactc agatatactc ggtgctacca cagaggttct gattgaagat 480  
 tcagactctg ccggacctta ntggacagga agacttgggg catgggacag ctcagacttt 540  
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 tccaagcttt acgtaccccg ttgcaatgcc n 631

<210> 774  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 774  
 Gln Asp Glu Leu Glu Glu Ser Glu Met Ser Glu Lys Lys Ser Cys  
 1 5 10 15  
 Ser Ser Ser Pro Thr Gln Ser Glu Ile Ser Thr Ser Leu Pro Pro Asp  
 20 25 30  
 Arg Gln Arg Arg Lys Arg Glu Leu Arg Thr Phe Ser Phe Ser Asp Asp  
 35 40 45  
 Glu Asn Lys Pro Pro Ser Pro Lys Glu Ile Arg Ile Glu Val Ala Glu  
 50 55 60

Gly Phe Thr Trp Xaa Ser Asn Pro Leu Lys Trp Ser Val Ala Asp Val  
65 70 75 80  
Val Arg Phe Ile Arg Ser Thr Asp Cys Ala Ser Ile Ser Lys Asn Ile  
85 90 95  
Pro Xaa Pro Gly Asn  
100

&lt;210&gt; 775

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 775

Ala Ala Arg Ala Ala Arg Glu Ala Leu Leu Gly Trp Gly Thr Asp Cys  
1 5 10 15  
Pro Pro Phe Leu Met Cys Val Val Ser Leu Cys Cys Gly Ile Asp Met  
20 25 30  
Asp Ala Arg Thr Thr Leu Glu Thr Gly Val Ala Ser Arg Ala His Arg  
35 40 45  
Xaa Arg Glu Glu Gly Ala Ile Thr Gly Cys Gln Pro Leu Pro Gly Leu  
50 55 60  
Gly Ala Leu Ser His Gly Pro Ala Pro Ser Trp Val Phe Ile Leu Tyr  
65 70 75 80  
Leu Leu Gly Asp Arg Arg Arg Gly Ile Leu Pro Gly Trp Asp Lys Pro  
85 90 95

Leu

&lt;210&gt; 776

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 776  
Phe Gly Arg Glu Ser Cys Ser Val Arg Thr Gln Arg Glu Pro Trp Lys

1 5 10 15  
Pro Gln Arg Ile Xaa Xaa Pro Pro Ala Thr Leu Ala Pro Arg Tyr Tyr  
20 25 30  
Arg Arg Asn Cys Val Asp Ala Phe Pro Asp Thr Leu Ser Leu Ser Pro  
35 40 45  
Gly Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser Val Gly Ser  
50 55 60  
Asn Phe Leu Thr Trp Tyr Glu Gln Lys Ser Gly Gln Xaa Pro Arg Leu  
65 70 75 80  
Leu Met Phe Gly Asn Ser Arg Xaa Pro Leu Ala Ser Gln Thr Gly Ser  
85 90 95  
Val Ala Val Gly Leu Gly Gln Xaa Ser Leu Ser Pro Ser Ala Asp Trp  
100 105 110  
Arg Leu Lys Ile Leu Gln Cys Ile Xaa Val Gln Gln Xaa Xaa Phe Arg  
115 120 125  
Ser Thr Met Phe Gln Phe Trp Ala Arg Gly Pro Xaa Leu Glu Xaa Lys  
130 135 140  
Asp Cys  
145

&lt;210&gt; 777

&lt;211&gt; 201

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (186)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 777

Arg Ser Gly Ser Gly Ser Lys Ile Lys Ser Arg Xaa Leu Gly Val Pro  
1 5 10 15

Arg Arg Ser Gln Xaa Ser Glu Gly Cys Pro Ala Thr Pro Ala Gly Ala  
20 25 30

Pro Pro Gly Gln Gly His Thr Thr Gly Ser Val Lys Pro Leu Xaa Arg  
35 40 45

Ser Asp Ala Met Glu Leu Asp Leu Ser Pro Pro His Leu Ser Ser Ser  
50 55 60

Pro Glu Asp Leu Cys Pro Ala Pro Gly Thr Pro Pro Gly Thr Pro Arg  
65 70 75 80

Pro Pro Asp Thr Pro Leu Pro Glu Glu Val Lys Arg Ser Gln Pro Leu  
85 90 95

Leu Ile Pro Thr Thr Gly Arg Lys Leu Arg Glu Glu Glu Arg Arg Ala  
100 105 110

Thr Ser Leu Pro Ser Ile Pro Asn Pro Phe Pro Glu Leu Cys Ser Pro  
115 120 125

Pro Ser Gln Ser Pro Ile Leu Gly Gly Pro Ser Ser Ala Arg Gly Leu  
130 135 140

Leu Pro Ala Asn Ala Ser Arg Pro His Val Val Lys Val Tyr Ser Glu  
145 150 155 160

Asp Gly Ala Cys Ser Leu Trp Arg Trp Gln Gln Val Pro Gln Xaa Ala  
165 170 175

Thr Cys Val Lys Cys Trp Cys Thr Ser Xaa Xaa Leu Ser Asp Glu Thr  
180 185 190

Trp Gly Phe Val Glu Cys His Pro Asn  
195 200

<210> 778

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 778

Asn Gln Cys Ser Gly Glu Arg His Leu Arg Val Thr Gln Gly Leu Gly  
1 5 10 15

Thr Gly Ala Phe Leu Gly Gly Leu Arg Pro Val Leu Gln Pro Arg Gln  
20 25 30

Gly Gln Asp Phe Arg Lys Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met  
35 40 45

Phe Thr Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile  
50 55 60

Lys Lys Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser  
65 70 75 80

Xaa Ile Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala  
85 90 95

Glu Arg His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn  
100 105 110

Gly Lys Ile Val Thr Asp Tyr Thr  
115 120

<210> 779

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 779  
His Gln Glu Glu Leu Arg Leu Leu Gly Arg Lys Ala Arg Arg Asn Thr  
1 5 10 15  
Arg Leu Arg Asp Glu Phe Ser Thr Glu Ala Ala Lys Leu Trp Thr Leu  
20 25 30  
Ala Arg Pro Phe Cys Pro Pro Leu Leu Ala Thr Leu Leu Gln Met Gln  
35 40 45

Met Val Val Leu Pro Cys Leu Gly Phe Thr Leu Leu Leu Trp Ser Gln  
50 55 60  
Val Ser Gly Ala Gln Gly Gln Glu Phe His Phe Gly Pro Cys Gln Val  
65 70 75 80  
Lys Gly Val Val Pro Gln Lys Xaa Trp Glu Xaa Phe Trp Xaa Val Lys  
85 90 95  
Asp Xaa Met Gln Xaa Gln Xaa Asn Ile Xaa Xaa Xaa Arg Leu Leu  
100 105 110

<210> 780  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 780  
Ile Arg His Glu Phe Asn Thr Lys Cys Pro Ser Gly Ser Cys Val Met  
1 5 10 15  
Asn Gln Tyr Leu Ser Ser Lys Phe Pro Lys Asp Phe Ser Thr Ser Cys  
20 25 30  
Arg Ala His Phe Glu Arg Tyr Leu Leu Ser Gln Lys Pro Lys Cys Leu  
35 40 45  
Leu Gln Ala Pro Ile Pro Thr Asn Ile Met Thr Thr Pro Val Cys Gly  
50 55 60  
Asn His Leu Leu Glu Val Gly Glu Asp Cys Asp Cys Gly Ser Pro Lys  
65 70 75 80  
Glu Cys Thr Asn Leu Cys Cys Glu Ala Leu Thr Cys Lys Leu Lys Pro  
85 90 95  
Gly Thr Asp Cys Gly Gly Asp Ala Pro Asn His Thr Thr Glu  
100 105 110

<210> 781  
<211> 124  
<212> PRT  
<213> Homo sapiens

<400> 781  
Gly Gln Pro Ala Arg Val Trp Ser Leu Asp Thr Met Gly Thr Arg Leu

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      1             5             10             15
Leu Pro Ala Leu Phe Leu Val Leu Leu Val Leu Gly Phe Ala Pro Arg
      20             25             30
Ala Leu Leu Thr His Ser Pro Pro Ala Glu Val Gln Gly Thr Gln Gln
      35             40             45
Pro Gln Gln Asp Glu Met Pro Ser Pro Thr Phe Leu Thr Gln Val Lys
      50             55             60
Glu Ser Leu Ser Ser Tyr Trp Glu Ser Ala Lys Thr Ala Ala Gln Asn
      65             70             75             80
Leu Tyr Glu Lys Thr Tyr Leu Pro Ala Val Asp Glu Lys Leu Arg Asp
      85             90             95
Leu Tyr Ser Lys Ser Thr Ala Ala Met Ser Thr Tyr Thr Gly Ile Phe
      100            105            110
Thr Asp Gln Val Leu Ser Val Leu Lys Gly Glu Glu
      115            120

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&lt;210&gt; 782

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

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Asn Arg Asp Val Ser Arg Asp Pro Gln Phe Trp Arg Leu Arg Ser Leu
  1             5             10             15
Lys Ser Arg His Gln Gln Ile Pro His Leu Val Lys Ala His Ser Leu
      20             25             30
Leu His Arg Trp His Cys Leu Ala Val Phe Ser His Gly Arg Arg Gly
      35             40             45
Lys Gln Ala Pro Leu Gly Leu Phe Tyr Lys Gly Thr Asn Ser Met Pro
      50             55             60
Lys Gly Arg Ala Leu Met Thr Leu Ser Pro Thr Lys Arg Leu His Phe
      65             70             75             80
Phe Ile Leu Leu Glu Gly
      85

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<210> 783  
<211> 102  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 783  
Gly Gln Ser Pro Asp Ala Gly Phe Leu Val Phe Pro Ala Gly Ile Lys  
1 5 10 15  
Gln Lys Gly Leu Leu Leu Ser Ser Ser Leu Met His Ser Glu Ser Glu  
20 25 30  
Leu Asp Ser Asp Asp Ala Ile Phe Thr Trp Pro Asp Arg Glu Lys Gly  
35 40 45  
Lys Leu Leu Ala Trp Ser Glu Trp Leu Cys Thr Gln Arg Ala Asp Pro  
50 55 60  
Ser Xaa Arg Pro Gly Ala Arg Gly Xaa Arg Ser Cys Ser His Leu Val  
65 70 75 80  
Cys Leu Leu Arg Ala Xaa Pro Gly Thr Ile Ala Arg Pro Val Leu Leu  
85 90 95  
Thr Xaa Arg Val Leu Arg  
100

<210> 784  
<211> 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

Ile Tyr Ile Thr Gly Tyr Val Asn Ile Phe Lys Tyr Trp Gly Asn Cys  
1 5 10 15

Phe Thr Val Leu Glu Pro Ser Lys Ile His Leu Cys Phe Val Phe Met  
20 25 30

Phe Ile Cys Leu Leu Lys Ala Arg Val Glu Asp Lys  
35 40

&lt;210&gt; 785

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 785

Ala Gly Ile Thr Pro Leu His Ser Ser Leu Gly Asp Lys Ser Glu Ser  
1 5 10 15

Val Ser His Gln Lys Lys Lys Glu Lys Glu Arg Cys Leu Thr Lys Val  
20 25 30

Thr Ile Ser His Lys Phe Xaa Thr Thr Tyr Pro Ser Ser Phe Lys  
35 40 45

&lt;210&gt; 786

&lt;211&gt; 301

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 786

Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu  
1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser  
20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala  
35 40 45

Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys  
 50 55 60  
 Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys  
 65 70 75 80  
 Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala  
 85 90 95  
 Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys  
 100 105 110  
 Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn  
 115 120 125  
 Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys  
 130 135 140  
 Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu  
 145 150 155 160  
 Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala  
 165 170 175  
 Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp  
 180 185 190  
 Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln  
 195 200 205  
 Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp  
 210 215 220  
 Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe  
 225 230 235 240  
 Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr  
 245 250 255  
 Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp  
 260 265 270  
 Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His  
 275 280 285  
 Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr  
 290 295 300



<210> 787  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 787

Asn Lys Phe Gln Gly Phe Ser Leu Pro Leu Val Arg Lys Phe Ala His  
1 5 10 15  
Ser Ile Leu Gln Cys Leu Asp Ala Leu His Lys Asn Arg Ile Ile His  
20 25 30  
Cys Asp Leu Lys Pro Glu Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser  
35 40 45  
Gly Ile Lys Val Ile Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg  
50 55 60  
Val Tyr Thr Tyr Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile  
65 70 75 80  
Leu Gly Ala Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys  
85 90 95  
Ile Leu Ala Glu Leu Leu Thr Gly Tyr Pro Leu Leu Pro Gly Glu Asp  
100 105 110  
Glu Gly Asp Gln Leu Ala Cys Met Ile Glu Leu Leu Gly Met Pro His  
115 120 125  
Arg Asn Cys Trp Met His Pro Asn Glu Pro Lys Ile Leu  
130 135 140

<210> 788  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 788

Glu Lys Arg Ser Ser Ser Phe Glu Ala Arg Gly Leu Ile Trp Arg Ser  
1 5 10 15  
Lys Thr Leu His Val His Phe Gln Thr Trp Ser Gly Thr Tyr Ile Val  
20 25 30  
Asn Tyr Asn Gln Ser Trp Glu Leu His Lys Asp Asn Glu Ala Gln Leu  
35 40 45  
Lys Pro Ser Phe Ser Leu Pro Tyr Leu Tyr Pro Ser Leu Arg Thr Ala

50 55 60

Val Gln Glu Asn Gln Ala Val Cys Gly Leu Leu  
65 70 75

<210> 789

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 789

Met Gly Trp Ala Lys His Cys Cys Arg Phe Ile Leu Leu Pro Thr Gln  
1 5 10 15

Leu Leu His Asn Lys Ala Leu Leu Ser Leu Lys Lys Lys Lys Lys Lys  
20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45

Lys Lys Lys Asn Xaa Gly Gly Gly Pro Pro Pro  
50 55

<210> 790

<211> 111

<212> PRT

<213> Homo sapiens

<400> 790

Asp Glu Lys Gly Thr Val Pro Gln Arg Tyr Thr Phe Gly Thr Ser Ile  
1 5 10 15

Met Lys Ala Ser Leu Ala Trp Gln Val Glu Tyr Arg Gln Phe Trp Ile  
20 25 30

Phe Asn Ala Trp His Gly Ala Gly Val Lys Tyr Leu Ala Arg Ala Cys  
35 40 45

Leu Pro Tyr Asn Gly Arg Glu Pro Gly Leu Trp Met Ile Arg Tyr Gln  
50 55 60

Thr Leu Leu Leu Leu Ser Val Phe Phe Cys Gly Lys Gly Arg Arg Ile

```

65              70              75              80
Glu Trp Arg Gly Ile Ser Gly Ser Leu Gly Glu Val Gln Asn Lys Glu
      85              90              95
Thr Val Lys Ser Ser Thr Ser Lys Leu Gly Leu His Gln Asp Ser
      100             105             110

<210> 791
<211> 245
<212> PRT
<213> Homo sapiens

<400> 791
Glu Tyr Leu Thr Ser Ser Gly Gly Arg Arg Met Glu Tyr Ile Leu Thr
  1              5              10             15
Asp Ile Arg Lys Gly His Met Cys Asn Ala Lys Leu Leu Arg Asn Met
      20             25             30
Pro Glu Phe Ser Gly Val Leu His Gln Cys His Ile Leu Ala Ser Glu
      35             40             45
Met Val His Phe Ile His Gln Met Gln Tyr Tyr Ile Thr Phe Glu Val
      50             55             60
Leu Glu Cys Ser Trp Asp Glu Leu Trp Asn Lys Val Gln Gln Ala Gln
      65             70             75             80
Asp Leu Asp His Ile Ile Ala Ala His Glu Val Phe Leu Asp Thr Ile
      85             90             95
Ile Ser Arg Cys Leu Leu Asp Ser Asp Ser Arg Ala Leu Leu Asn Gln
      100            105            110
Leu Arg Ala Val Phe Asp Gln Ile Ile Glu Leu Gln Asn Ala Gln Asp
      115            120            125
Ala Ile Tyr Arg Ala Ala Leu Glu Glu Leu Gln Arg Arg Leu Gln Phe
      130            135            140
Glu Glu Lys Lys Lys Gln Arg Glu Ile Glu Gly Gln Trp Gly Val Thr
      145            150            155            160
Ala Ala Glu Glu Glu Glu Asn Lys Arg Ile Gly Glu Phe Lys Glu
      165            170            175
Ser Ile Pro Lys Met Cys Ser Gln Leu Arg Ile Leu Thr His Phe Tyr
      180            185            190

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Gln Gly Ile Val Gln Gln Phe Leu Val Leu Leu Thr Thr Ser Ser Asp  
195 200 205  
Glu Ser Leu Arg Phe Leu Ser Phe Arg Leu Asp Phe Asn Glu His Tyr  
210 215 220  
Lys Ala Arg Glu Pro Arg Leu Arg Cys Val Ser Gly Tyr Gln Gly Ala  
225 230 235 240  
Ala His Ser His Thr  
245

<210> 792  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 792  
Phe Trp Ala Tyr Thr Lys Lys Ser Arg Tyr Gly Lys Ile Tyr Cys Gln  
1 5 10 15  
Gly Ile Leu Glu Phe Pro Thr Arg Val Gly Glu Arg Cys Pro Asn Ser  
20 25 30  
Leu Arg Met Val Phe Met Met Val Pro Tyr Leu Ser Pro Gly Leu Phe  
35 40 45  
Ser Tyr Ser Val Pro Gln Lys Cys Cys Arg Gly Gln Asp Ser Thr Phe  
50 55 60  
Thr Ala Cys Ser Ile Tyr Glu Ile Phe Gln Met Leu Leu Val Val Asp  
65 70 75 80  
Ile Pro Asn Ser Trp Tyr Leu Ala Thr Arg Asp His Asp Gly Met Ser  
85 90 95  
Gly Trp Leu Phe Tyr Leu Pro Phe Pro Gln Asn Ser  
100 105

<210> 793  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 793  
Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met

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      1             5             10             15
Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe
      20             25             30
Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr
      35             40             45
Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile
      50             55             60
Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Gly Arg Gly Glu Ala
      65             70             75             80
Gly Arg Leu Gly Ala Leu Cys Leu Phe Thr Tyr Leu Arg Gly Phe Leu
      85             90             95
Gln Gly Leu Leu Ala Val Pro Lys Ala Ile Gly Met Asn Lys Tyr Ser
      100            105            110
His Phe Pro Ser Gly Val Pro Arg Lys Leu Lys Cys Val Ala Leu Glu
      115            120            125

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&lt;210&gt; 794

&lt;211&gt; 262

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 794

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Ser Ser Val Pro Gly Gly Tyr Pro Gly Thr Glu His Ser His Arg Cys
  1             5             10             15
Arg Arg Phe Tyr Gln Leu Ala Leu Gly Trp Thr Thr Leu Ala Lys Thr
      20             25             30
Ser Trp Leu Glu Asp Xaa Ser Pro Asp Leu Val Pro Arg Gly Ser Gln
      35             40             45
Leu Ala Gly Gly Val Ile Leu Gly Val Ala Leu Trp Leu Arg His Asp
      50             55             60

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Pro Gln Thr Thr Asn Leu Leu Tyr Leu Glu Leu Gly Asp Lys Pro Ala  
65 70 75 80

Pro Asn Thr Phe Tyr Val Gly Ile Tyr Ile Leu Ile Ala Val Gly Ala  
85 90 95

Val Met Met Phe Val Gly Phe Leu Gly Cys Tyr Gly Ala Ile Gln Glu  
100 105 110

Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr Cys Leu Val Ile Leu Phe  
115 120 125

Ala Cys Glu Val Ala Ala Gly Ile Trp Gly Phe Val Asn Lys Asp Gln  
130 135 140

Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp Gln Ala Leu Gln Gln Ala  
145 150 155 160

Val Val Asp Asp Asp Ala Asn Asn Ala Lys Ala Val Val Lys Thr Phe  
165 170 175

His Glu Thr Leu Asp Cys Cys Gly Ser Ser Thr Leu Thr Ala Leu Thr  
180 185 190

Thr Ser Val Leu Lys Asn Asn Leu Cys Pro Ser Gly Ser Asn Ile Ile  
195 200 205

Ser Asn Leu Phe Lys Glu Asp Cys His Gln Lys Ile Asp Asp Leu Phe  
210 215 220

Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala Ala Ile Val Val Ala Val  
225 230 235 240

Ile Met Ile Phe Glu Met Ile Leu Ser Met Val Leu Cys Cys Gly Ile  
245 250 255

Arg Asn Ser Ser Val Tyr  
260

&lt;210&gt; 795

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 795

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly  
1 5 10 15

Gly Gly Ala Cys Ser Glu Pro Arg Ser Cys His Cys Thr Pro Ala Trp  
20 25 30

Ala Thr Glu Arg Asp Phe Arg Leu Lys Lys Lys Xaa Xaa  
35 40 45

&lt;210&gt; 796

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 796

Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His  
1 5 10 15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe  
20 25 30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln  
35 40 45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met  
50 55 60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser  
65 70 75 80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn  
85 90 95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln  
100 105 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro  
115 120 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu  
130 135 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu

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<210> 797
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797
Ala Gly Leu Cys Ser Ala Asp Trp Arg Pro Pro Gly Thr Glu Val Thr
  1                      5                      10                      15

Ser Gln Gly Pro Arg Gln Pro Ser Ser Ser Gly Ala Lys Arg Arg Arg
                20                      25                      30

Leu Arg Ala Ala Leu Gly Pro Gln Pro Thr Arg Ser Ala Leu Arg Phe
    35                      40                      45

Pro Ser Ala Ser Pro Gly Ser Leu Lys Ala Lys Gln Ser Met Ala Gly
    50                      55                      60

Ile Xaa Gly Arg Glu Ser Asn Ala Pro Ser Val Pro Thr Val Ser Leu
  65                      70                      75                      80

Leu Pro Gly Ala Pro Gly Gly Asn Ala Ser Ser Arg Thr Glu Ala Gln
                85                      90                      95

Val Pro Asn Gly Gln Gly Ser Pro Gly Gly Cys Val Cys Ser Ser Gln
                100                      105                      110

Ala Ser Pro Ala Pro Arg Ala Ala Ala Pro Pro Arg Ala Ala Arg Gly
    115                      120                      125

Pro Thr Pro Arg Thr Glu Glu Ala Ala Trp Ala Ala Met Ala Leu Thr
    130                      135                      140

Phe Leu Leu Val Leu Leu Thr Leu Ala Thr Leu Cys Thr Arg Leu His
  145                      150                      155                      160

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Arg Asn Phe Arg Arg Gly Glu Ser Ile Tyr Trp Gly Pro Thr Ala Asp  
 165 170 175

Ser Gln Asp Thr Val Ala Ala Val Leu Lys Arg Arg Leu Leu Gln Pro  
 180 185 190

Ser Arg Arg Val Lys Arg Ser Arg Arg Arg Pro Leu Leu Pro Pro Thr  
 195 200 205

Pro Asp Ser Gly Pro Glu Gly Glu Ser Ser Glu  
 210 215

<210> 798

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 798

Tyr Gln Leu Lys Pro Tyr Thr Xaa His Leu Ile Lys Asp Leu His Phe  
 1 5 10 15

Phe Leu Arg Val Leu Ile Gln Leu Tyr His Arg Ile Pro His Lys Leu  
 20 25 30

His Ile Ile Pro Leu Trp Asp Arg Asp Pro Ser Thr Ser Leu Leu Glu  
 35 40 45

Gln Gly His Ile Val His Tyr Leu Ser Gln Val Leu Ile Ser Ser Pro  
 50 55 60

Lys Asp Gln Thr Val Phe Gln His Leu Leu Leu Gln Gly Ser Val Leu  
 65 70 75 80

Ile Leu Ala Leu Trp Pro Cys His Met Gly Phe Lys Asp Leu Ser Arg  
 85 90 95

His Leu Gln Cys Leu Asp Arg Phe Gln Phe Thr Glu His Arg Cys His  
 100 105 110

Gln His Phe Lys Thr Ile Thr Met Gly Gln Gly Gly Ile Lys Met Asp  
 115 120 125

Ser Lys Asn Ile Phe Leu Asn Val Leu  
 130 135

<210> 799  
<211> 119  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 799  
Cys Phe Gly Ala Gly Gln Ser Val Ala Gly Arg Gly His Met Pro Lys  
1 5 10 15  
Ser His His Glu Leu Pro Gly Ala Ser Arg Gln Gly Pro Ser Ile Pro  
20 25 30  
His Gln Val Phe Gln His Asp Val Pro Asp Gly Arg Gln Leu Gly Leu  
35 40 45  
Xaa Ala Glu Ile Lys Ala Gly Lys Ser Leu Lys Pro Thr Pro Gln Ser  
50 55 60  
Lys Gly Leu Thr Thr Val Phe Ser Gly Ile Gly Gln Pro Ala Phe Gln  
65 70 75 80  
Val Gly Gly Pro Ser Arg Ser Leu Arg Pro Gly Phe Pro Gly Pro Arg  
85 90 95  
Pro Pro Gly Ala Gln Pro His Arg Phe Ser Leu Gln Pro Asp Ser Pro  
100 105 110  
Leu Pro Ser Val Ser Pro Ala  
115

<210> 800  
<211> 148  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 800

Gly Ser Thr His Ala Ser Gly Trp Ser Cys Val Tyr Lys Asn Asp Gln  
 1 5 10 15  
 Ala Ala Lys Asp Asn Pro Thr Lys Ser Leu Gln Glu Glu Glu Pro Cys  
 20 25 30  
 Pro Arg Phe Ala His Gln Leu Val Tyr Asp Glu Leu His Lys Val His  
 35 40 45  
 Tyr Leu Phe Gly Gly Asn Pro Gly Lys Ser Cys Ser Pro Lys Met Arg  
 50 55 60  
 Leu Asp Asp Phe Trp Ser Leu Lys Leu Cys Arg Pro Ser Lys Asp Tyr  
 65 70 75 80  
 Leu Leu Arg His Cys Lys Tyr Leu Ile Arg Lys His Xaa Phe Glu Glu  
 85 90 95  
 Lys Ala Gln Val Asp Pro Leu Ser Ala Leu Lys Tyr Leu Gln Asn Asp  
 100 105 110  
 Leu Tyr Ile Thr Val Asp His Ser Asp Pro Glu Glu Thr Lys Glu Phe  
 115 120 125  
 Gln Leu Leu Ala Ser Ala Leu Phe Lys Ser Gly Ser Arg Phe Tyr Ser  
 130 135 140  
 Ser Gly Leu Phe  
 145

&lt;210&gt; 801

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 801

Ser His Ile Gln Gly Glu Gly Ser Cys Thr Leu Phe Arg Lys Tyr Asp  
 1 5 10 15  
 His Met Arg Ala Ala Ile Leu Glu Lys Met Pro Leu Val Glu Arg Asp  
 20 25 30  
 Gly Pro Gln Ala Asp Glu Glu Ala Lys Glu Ser Lys Glu Ala Ala Gln  
 35 40 45

Leu Ser Glu Ala Ala Pro Val Pro Thr Glu Pro Gln Ala Ser Gln Leu  
 50 55 60  
 Leu Asp Leu Leu Asp Leu Leu Asp Gly Ala Ser Gly Asp Val Gln His  
 65 70 75 80  
 Pro Pro His Leu Asp Pro Ser Pro Gly Gly Ala Leu Val His Leu Leu  
 85 90 95  
 Asp Leu Pro Cys Val Pro Pro Pro Pro Ala Pro Ile Pro Asp Leu Lys  
 100 105 110  
 Val Phe Glu Arg Glu Gly Val Gln Leu Asn Leu Ser Phe Ile Arg Pro  
 115 120 125  
 Pro Glu Asn Pro Ala Leu Leu Leu Ile Thr Ile Thr Ala Thr Asn Phe  
 130 135 140  
 Ser Glu Gly Asp Val Thr His Phe Ile Cys Gln Ala Ala Val Pro Lys  
 145 150 155 160  
 Ser Leu Gln Leu Gln Leu Gln Ala Pro Ser Gly Asn Thr Val Pro Ala  
 165 170 175  
 Arg Gly Gly Leu Pro Ile Thr Gln Leu Phe Arg Ile Leu Asn Pro Asn  
 180 185 190  
 Lys Ala Pro Leu Arg Leu Lys Leu Arg Ser Leu Arg Pro Leu Ser Pro  
 195 200 205  
 Val Gly Ala Gly Asp Xaa  
 210

&lt;210&gt; 802

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 802

Lys Phe Ala Asn Leu Lys Arg Gly Val Ser Glu Asp His Tyr Leu Leu  
 1 5 10 15  
 Arg Thr Leu Lys Asn Lys Cys Leu Gln Leu Cys Met Gly Thr Ile Leu  
 20 25 30  
 Tyr Ser Leu His Phe Tyr Gly Pro Thr Ala Thr Ser Tyr Pro Cys Lys  
 35 40 45

Tyr Ile Asn  
50

<210> 803  
<211> 167  
<212> PRT  
<213> Homo sapiens

<400> 803  
Ala Arg Leu Pro Gly Ser Gly Cys Cys Arg Pro Pro Val Ser Ala Arg  
1 5 10 15  
Val Ala Pro Gly His Gln Gly Ala Val Gly Gly Ser Gly Arg Arg Pro  
20 25 30  
Ala Arg Val Glu Val Val Asp Ala Ala Ala Arg Pro Ser Ser Arg Pro  
35 40 45  
Phe Ser Leu Pro Ala Ala Ile Met Leu Ala Leu Ile Ser Arg Leu Leu  
50 55 60  
Asp Trp Phe Arg Ser Leu Phe Trp Lys Glu Glu Met Glu Leu Thr Leu  
65 70 75 80  
Val Gly Leu Gln Tyr Ser Gly Lys Thr Thr Phe Val Asn Val Ile Ala  
85 90 95  
Ser Gly Gln Phe Ser Glu Asp Met Ile Pro Thr Val Gly Phe Asn Met  
100 105 110  
Arg Lys Val Thr Lys Gly Asn Val Thr Ile Lys Ile Trp Asp Ile Gly  
115 120 125  
Gly Gln Pro Arg Phe Arg Ser Met Trp Glu Arg Tyr Cys Arg Gly Val  
130 135 140  
Asn Ala Ile Val Tyr Met Ile Asp Ala Ala Asp Arg Glu Lys Ile Glu  
145 150 155 160  
Ala Ser Arg Asn Glu Leu Thr  
165

<210> 804  
<211> 361  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 804

Ala Arg Ser Arg Asp Gly Ala Pro Glu Arg Arg Glu Pro Gly Leu Gly  
1 5 10 15

Val Leu Leu Arg Glu Glu Glu Trp Ser Arg Gly Asp Ala Ala Ala Ala  
20 25 30

Leu Thr Met Ser Phe Leu Gly Gly Phe Phe Gly Pro Ile Cys Glu Ile  
35 40 45

Asp Ile Val Leu Asn Asp Gly Glu Thr Arg Lys Met Ala Glu Met Lys  
50 55 60

Thr Glu Asp Gly Lys Val Glu Lys His Tyr Leu Phe Tyr Asp Gly Glu  
65 70 75 80

Ser Val Ser Gly Lys Val Asn Leu Ala Phe Lys Gln Pro Gly Lys Arg  
85 90 95

Leu Glu His Gln Gly Ile Arg Ile Glu Phe Val Gly Gln Ile Glu Leu  
100 105 110

Phe Asn Asp Lys Ser Asn Thr His Glu Phe Val Asn Leu Val Lys Glu  
115 120 125

Leu Ala Leu Pro Gly Glu Leu Thr Gln Ser Arg Ser Tyr Asp Phe Glu  
130 135 140

Phe Met Gln Val Glu Lys Pro Tyr Glu Ser Tyr Ile Gly Ala Asn Val  
145 150 155 160

Arg Leu Arg Tyr Phe Leu Lys Val Thr Ile Val Arg Arg Leu Thr Asp  
165 170 175

Leu Val Lys Glu Tyr Asp Leu Ile Val His Gln Leu Ala Thr Tyr Pro  
180 185 190

Asp Val Asn Asn Ser Ile Lys Met Glu Val Gly Ile Glu Asp Cys Leu  
195 200 205

His Ile Glu Phe Glu Tyr Asn Lys Ser Lys Tyr His Leu Lys Asp Val  
210 215 220

Ile Val Gly Lys Ile Tyr Phe Leu Leu Val Arg Ile Lys Ile Gln His  
225 230 235 240

Met Glu Leu Gln Leu Ile Lys Lys Glu Ile Thr Gly Ile Gly Pro Ser  
245 250 255

Thr Thr Thr Glu Thr Glu Thr Ile Ala Lys Tyr Glu Ile Met Asp Gly  
260 265 270

Ala Pro Val Lys Gly Glu Ser Ile Pro Ile Arg Leu Phe Leu Ala Gly  
 275 280 285

Tyr Asp Pro Thr Pro Thr Met Arg Asp Val Asn Lys Lys Phe Ser Val  
 290 295 300

Arg Tyr Phe Leu Asn Leu Val Leu Val Asp Glu Glu Asp Arg Ser Ser  
 305 310 315 320

Phe Lys Gln Gln Glu Ile Ile Leu Trp Arg Lys Ala Pro Glu Lys Leu  
 325 330 335

Arg Lys Gln Arg Thr Asn Phe His Gln Arg Phe Glu Ser Pro Glu Ser  
 340 345 350

Gln Ala Ser Ala Glu Gln Pro Glu Met  
 355 360

<210> 805  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 805

Ala Ala Pro Pro Ala Leu Arg Thr Trp Pro Arg Lys Ala Glu Trp Pro  
 1 5 10 15

Ala Gly Ala Pro Gln Gly Trp Arg Pro Arg Ser Leu Ser Val Thr His  
 20 25 30

Ser Thr Thr Arg Cys Pro Leu Val Gly Val Arg Ala Glu Gly Leu Arg  
 35 40 45

His Ala Thr Ala Pro Leu Glu Leu Gly Thr Thr Asp Trp Thr Gly Ser  
 50 55 60

Leu His Ala Gln Pro Pro Glu Thr Gly Thr Pro Ser Leu Lys Gly Pro  
 65 70 75 80

Arg Arg Gln Val Asp Lys Lys Val Glu Lys Gly Val  
 85 90

<210> 806  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 806

Xaa Gly Phe Pro Ala Pro Leu Pro Pro Thr Arg Met Met Glu Ser Lys  
1 5 10 15

Met Ile Ala Ala Ile His Ser Ser Ser Ala Asp Ala Thr Ser Ser Ser  
20 25 30

Asn Tyr His Ser Phe Val Thr Ala Ser Ser Thr Ser Val Asp Asp Ala  
35 40 45

Leu Pro Leu Pro Leu Pro Val Pro Gln Pro Lys His Ala Ser Gln Lys  
50 55 60

Thr Val Tyr Ser Ser Phe Ala Arg Pro Asp Val Thr Thr Glu Pro Phe  
65 70 75 80

Gly Pro Asp Asn Cys Leu His Phe Asn Met Thr Pro Asn Cys Gln Tyr  
85 90 95

Arg Pro Gln Ser Val Pro Pro His His Asn Lys Leu Glu Gln His Gln  
100 105 110

Val Tyr Gly Ala Arg Ser Glu Pro Pro Ala Ser Met Gly Leu Arg Tyr  
115 120 125

Asn Thr Tyr Val Ala Pro Gly Arg Asn Ala Ser Gly His His Ser Lys  
130 135 140

Pro Cys Ser Arg Val Glu Tyr Val Ser Ser Leu Ser Ser Ser Val Arg  
145 150 155 160

Asn Thr Cys Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg  
165 170 175

Val Gln Ser Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro  
180 185 190

Ile Ser Arg Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro  
195 200 205

Arg Pro Leu Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser  
210 215 220

Asp Tyr His Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val  
225 230 235 240



His Tyr Arg Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Tyr Tyr Ser  
245 250 255

Pro Asp Gly Ala Leu Cys Asp Val Asp Ala Tyr Gly Gln Ser Ser  
260 265 270

<210> 807

<211> 56

<212> PRT

<213> Homo sapiens

<400> 807

Asn Asn Thr Phe His Asn Gln Asn Phe Asn Ser Lys Tyr Lys Ile Lys  
1 5 10 15

Phe Ile Leu Asn Asn Glu Asn Val Phe Val Leu Asn Leu Val Thr Arg  
20 25 30

Glu His Arg Asn Lys Ile His Glu Thr Lys Val Ala Arg Asn Val Arg  
35 40 45

Thr Gly Gly Asn Val Tyr Ile Ile  
50 55

<210> 808

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 808

Val Cys Ala Xaa His Gly His Gly Arg Glu Leu Phe Gln Tyr Met Leu  
1 5 10 15

Gln Lys Glu Arg Val Glu Pro His Gln Leu Ala Ile Asp Arg Pro Ser  
20 25 30

Gln Lys Leu Leu Lys Phe Leu Asn Lys His Tyr Asn Leu Glu Thr Thr  
 35 40 45  
 Val Pro Gln Val Asn Asn Phe Val Ile Phe Glu Gly Phe Phe Ala His  
 50 55 60  
 Gln His Pro Pro Ala Arg Lys Leu Pro Pro Lys Arg Ala Glu Gly Asp  
 65 70 75 80  
 Ile Lys Pro Tyr Ser Ser Ser Asp Arg Glu Phe Leu Lys Val Ala Val  
 85 90 95  
 Glu Pro Pro Trp Pro Leu Asn Arg Ala Xaa Arg Arg Ala Thr Pro Pro  
 100 105 110  
 Ala His Pro Pro Pro Arg Ser Ser Ser Leu Gly Asn Ser Pro Glu Arg  
 115 120 125  
 Gly Pro Leu Arg Pro Phe Val Pro Glu Gln Glu Leu Leu Arg Ser Leu  
 130 135 140  
 Arg Leu Cys Pro Pro His Pro Thr Ala Arg Leu Leu Leu Ala Ala Asp  
 145 150 155 160  
 Pro Gly Gly Ser Pro Ala Gln Arg Arg Arg Thr Ser Ser Leu Pro Arg  
 165 170 175  
 Ser Glu Glu Ser Arg Tyr  
 180

&lt;210&gt; 809

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 809

Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala  
 1 5 10 15  
 His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln  
 20 25 30  
 Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser  
 35 40 45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu  
 50 55 60

Gln Arg Phe Gly His Gly Cys Xaa Val Pro Arg Cys Trp Leu Gln Ala  
 65 70 75 80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu  
 85 90 95

Gly Glu Gly Gln Glu Gly Glu Gly Gln Glu Glu Gly Gly Ser Pro Leu  
 100 105 110

Lys Gly Leu Asp Lys Ala His  
 115

&lt;210&gt; 810

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 810

Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gly Gln Ala  
 1 5 10 15

Ala Ala Ala Thr Glu Gly Gly Xaa Leu Ser Leu Gly Leu Gly Cys Arg  
 20 25 30

Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val Gly  
 35 40 45

Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr Leu  
 50 55 60

Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg Leu  
 65 70 75 80

Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly Gln  
 85 90 95

Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp Gln  
 100 105 110

Asn Glu Arg Thr Gly Ser Gln Thr Arg Leu Gly Val Leu Ile Leu Gly

115 120 125  
Trp Thr Arg Leu Trp Ile Gln Arg Arg Gly Leu Val Ser Asn Lys Ser  
130 135 140

<210> 811  
<211> 154  
<212> PRT  
<213> Homo sapiens

<400> 811  
His Glu Asp Asn Glu His Lys Arg Ser Leu Thr Lys Thr Pro Ala Arg  
1 5 10 15  
Lys Ser Ala His Val Thr Val Ser Gly Gly Thr Gln Lys Gly Glu Ala  
20 25 30  
Val Leu Gly Thr His Lys Leu Lys Thr Ile Thr Gly Asn Ser Ala Ala  
35 40 45  
Val Ile Thr Pro Phe Lys Leu Thr Thr Glu Ala Thr Gln Thr Pro Val  
50 55 60  
Ser Asn Lys Lys Pro Val Phe Asp Leu Lys Ala Ser Leu Ser Arg Pro  
65 70 75 80  
Leu Asn Tyr Glu Pro His Lys Gly Lys Leu Lys Pro Trp Gly Gln Ser  
85 90 95  
Lys Glu Asn Asn Tyr Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr  
100 105 110  
Lys Lys Thr Tyr Lys Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg  
115 120 125  
Lys Lys Arg Glu Gln Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly  
130 135 140  
Met Arg Arg Gly Leu Ile Leu Ala Glu Asp  
145 150

<210> 812  
<211> 86  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Asn Arg Ser Phe Phe Val Ser Pro Phe Lys Ser Thr Gly Phe Lys Arg  
1 5 10 15

Gly Lys Cys Ile His Arg Pro Gln Cys Leu Ala Phe Ser Ser Ala Ser  
20 25 30

Thr Trp Ser Thr Gly Leu Asp Ala Gln Thr Tyr Leu Gly Asn Tyr Phe  
35 40 45

Gly Arg Cys Leu Ser Leu Tyr Arg Asn Cys Ser Trp Tyr Phe Ile Leu  
50 55 60

Leu Tyr Ile Tyr Ser Thr Cys Pro Leu Val Phe Asn Tyr Xaa Gln Ser  
65 70 75 80

Leu Phe Arg Ser Lys Asn  
85

<210> 813

<211> 566

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 813

Arg Glu Leu Val Thr Asp Gly Gly Ala Ala Ser Pro Trp Arg Cys Asn  
1 5 10 15

Trp Glu Gln Leu Leu Asn Pro Arg Pro Ser Glu Ala Asp Pro Glu Ala  
20 25 30

Asp Pro Glu Glu Ala Thr Ala Ala Arg Val Ile Asp Arg Phe Asp Glu  
35 40 45

Gly Glu Asp Gly Glu Gly Asp Phe Leu Val Val Gly Ser Ile Arg Lys  
50 55 60

Leu Ala Ser Ala Ser Leu Leu Asp Thr Asp Lys Arg Tyr Cys Gly Lys  
65 70 75 80

Thr Thr Ser Arg Lys Ala Trp Asn Glu Asp His Trp Glu Gln Thr Leu  
85 90 95

Pro Gly Ser Ser Asp Glu Glu Ile Ser Asp Glu Glu Gly Ser Gly Asp  
100 105 110

Glu Asp Ser Glu Gly Leu Gly Leu Glu Glu Tyr Asp Glu Asp Asp Leu  
115 120 125

Gly Ala Ala Glu Glu Gln Glu Cys Gly Asp His Arg Glu Ser Lys Lys  
130 135 140

Ser Arg Ser His Ser Ala Lys Thr Pro Gly Phe Ser Val Gln Ser Ile  
145 150 155 160

Ser Asp Phe Glu Lys Phe Thr Lys Gly Met Asp Asp Leu Gly Ser Ser  
165 170 175

Glu Glu Glu Glu Asp Glu Glu Ser Gly Met Glu Glu Gly Asp Asp Ala  
180 185 190

Glu Asp Ser Gln Gly Glu Ser Glu Glu Asp Arg Ala Gly Asp Arg Asn  
195 200 205

Ser Glu Asp Asp Gly Val Val Met Thr Phe Ser Ser Val Lys Val Ser  
210 215 220

Glu Glu Val Glu Lys Gly Arg Ala Val Lys Asn Gln Ile Ala Leu Trp  
225 230 235 240

Asp Gln Leu Leu Glu Gly Arg Ile Lys Leu Gln Lys Ala Leu Leu Thr  
245 250 255

Thr Asn Gln Leu Pro Gln Pro Asp Val Phe Pro Leu Phe Lys Asp Lys  
260 265 270

Gly Gly Pro Glu Phe Ser Ser Ala Leu Lys Asn Ser His Lys Ala Leu  
275 280 285

Lys Ala Leu Leu Arg Ser Leu Val Gly Leu Gln Glu Glu Leu Leu Phe  
290 295 300

Gln Tyr Pro Asp Thr Arg Tyr Leu Val Asp Gly Thr Lys Pro Asn Ala  
305 310 315 320

Gly Ser Glu Glu Ile Ser Ser Glu Asp Asp Glu Leu Val Glu Glu Lys  
325 330 335

Lys Gln Gln Arg Xaa Arg Val Pro Ala Lys Arg Lys Leu Glu Met Glu  
 340 345 350  
 Asp Tyr Pro Ser Phe Met Ala Lys Arg Phe Ala Asp Phe Thr Val Tyr  
 355 360 365  
 Arg Asn Arg Thr Leu Gln Lys Trp His Asp Lys Thr Lys Leu Ala Ser  
 370 375 380  
 Gly Lys Leu Gly Lys Gly Phe Gly Ala Phe Glu Arg Ser Ile Leu Thr  
 385 390 395 400  
 Gln Ile Asp His Ile Leu Met Asp Lys Glu Arg Leu Leu Arg Arg Thr  
 405 410 415  
 Gln Thr Lys Arg Ser Val Tyr Arg Val Leu Gly Lys Pro Glu Pro Ala  
 420 425 430  
 Ala Gln Pro Val Pro Glu Ser Leu Pro Gly Glu Pro Glu Ile Leu Pro  
 435 440 445  
 Gln Ala Pro Ala Asn Ala His Leu Lys Asp Leu Asp Glu Glu Ile Phe  
 450 455 460  
 Asp Asp Asp Asp Phe Tyr His Gln Leu Leu Arg Glu Leu Ile Glu Arg  
 465 470 475 480  
 Lys Thr Ser Ser Leu Asp Pro Asn Asp Gln Val Ala Met Gly Arg Gln  
 485 490 495  
 Trp Leu Ala Ile Gln Lys Leu Arg Ser Lys Ile His Lys Lys Val Asp  
 500 505 510  
 Arg Lys Ala Ser Lys Gly Arg Lys Leu Arg Phe His Val Leu Ser Lys  
 515 520 525  
 Leu Leu Ser Phe Met Ala Pro Ile Asp His Thr Thr Met Asn Asp Asp  
 530 535 540  
 Ala Arg Thr Glu Leu Tyr Arg Ser Leu Phe Gly Gln Leu His Pro Pro  
 545 550 555 560  
 Asp Glu Gly His Gly Asp  
 565

&lt;210&gt; 814

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro  
1 5 10 15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn  
20 25 30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala  
35 40 45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val  
50 55 60

Ile Phe  
65

&lt;210&gt; 815

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

Glu Lys Glu Val Trp Arg Arg Lys Pro Arg Leu Glu Asn Ile Met Phe  
1 5 10 15

Trp Leu Glu Ile Arg Thr Arg Asp Gly Lys Tyr Gln Cys Val Gln Met  
20 25 30

Tyr Phe Thr Glu Phe Glu Gly Thr His Asn Gln Glu Gly Lys Gln Phe  
35 40 45

Val Leu His Trp Thr Tyr Tyr Leu Asp Leu Gly Glu Gln Gln Asn Gly  
50 55 60

Met Trp Ser Val Arg Ser Ile Leu Phe Val Leu Leu Ser Leu Met  
65 70 75

&lt;210&gt; 816

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 816

Ala Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu Ser  
1 5 10 15

Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Xaa Trp Asp Leu  
20 25 30

Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp  
35 40 45

Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu  
50 55 60

Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr  
65 70 75 80

Ser Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro  
85 90 95

Gln Glu Xaa Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met  
100 105 110

Ala Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu  
115 120 125

Pro Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr  
130 135 140

Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn  
145 150 155 160

Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala  
165 170 175

Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn  
180 185 190

Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu  
195 200 205

Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly  
210 215 220

Thr Phe Leu  
225

<210> 817  
<211> 200  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 817  
Pro Arg Val Arg Gly His Gln Gly Leu Leu Ala Pro Leu Gly Pro Gln  
1 5 10 15  
Pro Leu Leu Gly His Pro Met Pro Gly Ser Pro Ser Met Glu Thr His  
20 25 30  
Cys Cys Pro Thr Pro Ser Leu Arg Pro Thr Thr Thr Gly Pro Arg Xaa  
35 40 45  
Pro Thr Gly Pro Pro Gly Xaa Pro Gly Pro Met Gly Pro Pro Gly Pro  
50 55 60  
Pro Gly Pro Thr Gly Val Pro Gly Ser Pro Gly His Ile Gly Pro Pro  
65 70 75 80  
Gly Pro Thr Gly Pro Lys Gly Ile Ser Gly His Pro Gly Glu Lys Gly  
85 90 95  
Glu Arg Gly Leu Arg Gly Glu Pro Gly Pro Gln Gly Ser Ala Gly Ala  
100 105 110  
Ala Gly Gly Thr Gly Pro Lys Gly Asp Pro Gly Glu Lys Ser His Trp  
115 120 125  
Ala Pro Ser Leu Gln Ser Phe Leu Gln Gln Gln Ala Gln Leu Glu Leu  
130 135 140

Leu Ala Arg Arg Val Xaa Leu Leu Glu Ala Ile Ile Trp Pro Glu Pro  
145 150 155 160

Glu Leu Gly Ser Gly Ala Gly Pro Ala Gly Thr Gly Thr Pro Ser Leu  
165 170 175

Leu Arg Gly Lys Arg Gly Gly His Ala Thr Asn Tyr Arg Ile Val Ala  
180 185 190

Pro Arg Ser Arg Asp Glu Arg Gly  
195 200

<210> 818

<211> 85

<212> PRT

<213> Homo sapiens

<400> 818

Glu Lys Leu Asp Glu Tyr Ile Tyr Arg His Phe Phe Gly His Thr Phe  
1 5 10 15

Ser Pro Pro Tyr Gly Pro Ser Arg Pro Asp Lys Lys Gln Arg Met Val  
20 25 30

Asn Ile Glu Asn Ser Arg His Arg Lys Gln Glu Gln Lys His Leu Gln  
35 40 45

Pro Gln Pro Tyr Lys Arg Glu Gly Lys Trp His Lys Tyr Gly Arg Thr  
50 55 60

Asn Gly Arg Gln Met Ala Asn Leu Glu Ile Glu Leu Gly Gln Leu Pro  
65 70 75 80

Phe Asp Pro Gln Tyr  
85

<210> 819

<211> 67

<212> PRT

<213> Homo sapiens

<400> 819

Leu Gln Ser Gly Phe Ile Arg Tyr Cys Pro Ala Arg Lys Phe Pro Phe  
1 5 10 15

Cys Val Trp Leu Glu Gln Pro Ala Gly Thr Glu Trp Ile Leu Glu Glu  
20 25 30

Gly Val Thr Thr Gly Pro Pro Arg Lys Pro Arg Ala Asp Ile Tyr Asn  
35 40 45

Leu Arg Ser Pro Asp Glu Phe Ile Val Gly Gln Asn Gln Ala Leu Ile  
50 55 60

Glu Pro Gly  
65

<210> 820

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 820

Leu Thr Gly Ser Glu Leu Met Cys Arg Val Pro Ser Pro Lys Val Asn  
1 5 10 15

Leu Glu Pro Leu Asp Asn Thr Asn Lys Asn Ile Tyr Phe Thr Ser Val  
20 25 30

Ile Tyr Leu Glu Asn Xaa Leu Ser Ile Leu His Ile Phe Leu Ile Lys  
35 40 45

Ser Thr Gly Asp His Cys Glu Val Xaa Ile Leu Xaa  
50 55 60

<210> 821

<211> 259

<212> PRT

<213> Homo sapiens

&lt;400&gt; 821

Leu Ser Leu Ser Leu Leu Ser Pro Gln Leu Asp Tyr His Arg Gly Leu  
1 5 10 15

Leu Val Asp Arg Pro Ser Glu Thr Lys Thr Glu Glu Gln Gly Ile Pro  
20 25 30

Arg Pro Leu His Pro Pro Pro Pro Pro Val Gln Pro Pro Gln His  
35 40 45

Pro Arg Ala Glu Gln Arg Glu Gln Glu Arg Ala Val Arg Glu Gln Trp  
50 55 60

Ala Glu Arg Glu Arg Glu Met Glu Arg Arg Glu Arg Thr Arg Ser Glu  
65 70 75 80

Arg Glu Trp Asp Arg Asp Lys Val Arg Glu Gly Pro Arg Ser Arg Ser  
85 90 95

Arg Ser Arg Asp Arg Arg Arg Lys Glu Arg Ala Lys Ser Lys Glu Lys  
100 105 110

Lys Ser Glu Lys Lys Glu Lys Ala Gln Glu Glu Pro Pro Ala Lys Leu  
115 120 125

Leu Asp Asp Leu Phe Arg Lys Thr Lys Ala Ala Pro Cys Ile Tyr Trp  
130 135 140

Leu Pro Leu Thr Asp Ser Gln Ile Val Gln Lys Glu Ala Glu Arg Ala  
145 150 155 160

Glu Arg Ala Lys Glu Arg Glu Lys Arg Arg Lys Glu Gln Glu Glu Glu  
165 170 175

Glu Gln Lys Glu Arg Glu Lys Glu Ala Glu Arg Glu Arg Asn Arg Gln  
180 185 190

Leu Glu Arg Glu Lys Arg Arg Glu His Ser Arg Glu Arg Asp Arg Glu  
195 200 205

Arg Glu Arg Glu Arg Glu Arg Asp Arg Gly Asp Arg Asp Arg Asp Arg  
210 215 220

Glu Arg Asp Arg Glu Arg Gly Arg Glu Arg Asp Arg Arg Asp Thr Lys  
225 230 235 240

Arg His Ser Arg Ser Arg Ser Arg Ser Thr Pro Val Arg Asp Arg Gly  
245 250 255

Gly Arg Arg

<210> 822  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 822  
Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly  
1 5 10 15  
Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro  
20 25 30  
Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val  
35 40 45  
Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu  
50 55

<210> 823  
<211> 175  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 823  
Ser Trp Lys Thr Gly Glu Asp Lys Ser Met Ser Ser Leu Pro Gly Cys  
1 5 10 15  
Ile Gly Leu Asp Ala Ala Thr Ala Thr Val Glu Ser Glu Glu Ile Ala  
20 25 30  
Glu Leu Gln Gln Ala Val Val Glu Glu Leu Gly Ile Ser Met Glu Glu  
35 40 45  
Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln  
50 55 60

Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys  
 65 70 75 80

Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg  
 85 90 95

Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu  
 100 105 110

Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Xaa  
 115 120 125

Thr Glu Ile Ile Xaa Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile  
 130 135 140

Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg  
 145 150 155 160

Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys  
 165 170 175

&lt;210&gt; 824

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 824

His Lys Leu Asn Pro Met Tyr Leu Lys Leu Leu Gln Ser Phe Pro Leu  
 1 5 10 15

Tyr Phe Lys Gln Gln Lys Ser Gly Gly His Ile Val Val Leu Ser Phe  
 20 25 30

Lys Leu Cys Xaa Lys Phe Asn His Tyr Phe Asp Ala Leu Asn Ile Leu  
 35 40 45

Met Cys Asn Ile Cys Phe Cys Ile Lys Asn Thr His Ile Phe Gln Glu  
 50 55 60

Lys Glu Ile Met Leu Asn Ser Pro Val Leu Arg Lys Ile Phe Met Lys  
 65 70 75 80

His Leu Asn Leu Lys Ile Lys Ser Lys Leu

85

90

&lt;210&gt; 825

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

Ser Arg Arg Lys Met Ala Val Leu Ser Lys Glu Tyr Gly Phe Val Leu  
1 5 10 15

Leu Thr Gly Ala Ala Ser Phe Ile Met Val Ala His Leu Ala Ile Asn  
20 25 30

Val Ser Lys Ala Arg Lys Lys Tyr Lys Val Glu Tyr Pro Ile Met Tyr  
35 40 45

Ser Thr Asp Pro Glu Asn Gly His Ile Phe Asn Cys Ile Gln Arg Ala  
50 55 60

His Gln Asn Thr Leu Glu Val Tyr Pro Pro Phe Leu Phe Phe Leu Ala  
65 70 75 80

Val Gly Gly Val Tyr His Pro Arg Ile Ala Ser Gly Leu Gly Leu Ala  
85 90 95

Trp Ile Val Gly Arg Val Leu Tyr Ala Tyr Gly Tyr Tyr Thr Gly Glu  
100 105 110

Pro Ser Lys Arg Ser Arg Gly Ala Leu Gly Ser Ile Ala Leu Leu Gly  
115 120 125

Leu Val Gly Thr Thr Val Cys Ser Ala Phe Gln His Leu Gly Trp Val  
130 135 140

Lys Ser Gly Leu Gly Ser Gly Pro Lys Cys Cys His  
145 150 155

&lt;210&gt; 826

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 826

Ser Leu Thr Ser Tyr His Asn Gln Thr Phe Cys Ala Cys Ala Ile Val  
1 5 10 15  
Ala Ala Ile Xaa Ser Phe Gly Trp Asn Thr Val Lys Ile Asp Met Ser  
20 25 30  
Ala Ala Arg Arg Asp Pro Leu Pro Ile Val Pro Phe Gly Leu Ala Ala  
35 40 45  
Phe Ala Thr Thr Leu Phe Ala Leu Gly Leu Ala Leu Gly Thr Thr Ile  
50 55 60  
Ala Val Gly Met Leu Phe Phe Ile Gln Met Lys Ile Ile Leu Arg Asn  
65 70 75 80  
Lys Thr Ser Ile Glu Ser Trp Ile Glu Glu Lys Ala Lys Asp Arg Ile  
85 90 95  
Gln Tyr Tyr Gln Leu Asp Glu Val Phe Val Phe Pro Tyr Asp Met Gly  
100 105 110  
Ser Arg Trp Arg Asn Phe Lys Gln Val Phe Thr Trp Ser Gly Val Pro  
115 120 125  
Glu Gly Asp Gly Leu Glu Trp Pro Val Arg Glu Gly Cys His Gln Tyr  
130 135 140  
Ser Leu Thr Ile Glu Gln Leu Lys Gln Lys Ala Asp Lys Arg Val Arg  
145 150 155 160  
Ser Val Arg Tyr Lys Val Ile Glu Asp Tyr Ser Gly Ala Cys Cys Pro  
165 170 175  
Leu Asn Lys Gly Ile Lys Thr Phe Phe Thr Ser Pro Cys Thr Glu Glu  
180 185 190  
Pro Arg Ile Gln Leu Gln Lys Gly Glu Phe Ile Leu Ala Thr Arg Gly  
195 200 205  
Leu Arg Tyr Trp Leu Tyr Gly Asp Lys Ile Leu Asp Asp Ser Phe Ile  
210 215 220  
Glu Gly Val Ser Arg Ile Arg Gly Trp Phe Pro Arg Lys Cys Val Glu  
225 230 235 240  
Lys Cys Pro Cys Asp Ala Glu Thr Asp Gln Ala Pro Glu Gly Glu Lys  
245 250 255  
Lys Asn Arg

<210> 827  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 827  
Glu Pro Trp Xaa Leu Leu Lys Ser Leu Leu Cys Arg Arg Ser Pro Ser  
1 5 10 15  
Arg Thr Xaa Lys Gln Glu Glu Asp Arg Ala Thr Xaa Glu Ala Lys Asn  
20 25 30  
Gly Glu Lys Ala Arg Arg Xaa Ser Xaa Glu Val Asp Gly Gln His Pro  
35 40 45  
Ala Gln Glu Glu Val Pro Glu Ser Pro Gln Thr Ser Gly Pro Glu Gln  
50 55 60

Lys Ile Gly Val Gly Ala Pro Gly Arg Lys Ser Gln Leu Glu Arg Lys  
 65 70 75 80

Gln Xaa Trp Lys Arg Leu Gln Arg  
 85

<210> 828

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 828

Leu Pro Gly Val Phe Lys Met Ala Ala Ser Met His Gly Xaa Pro Ser  
 1 5 10 15

Pro Ser Leu Glu Asp Ala Lys Leu Arg Arg Pro Met Val Ile Glu Ile  
 20 25 30

Ile Glu Lys Asn Phe Asp Tyr Leu Arg Lys Glu Met Thr Gln Asn Ile  
 35 40 45

Tyr Gln Met Ala Thr Phe Gly Thr Thr Ala Gly Phe Ser Gly Ile Phe  
 50 55 60

Ser Asn Phe Leu Phe Arg Arg Cys Phe Lys Val Lys His Asp Ala Leu  
 65 70 75 80

Lys Thr Tyr Ala Ser Leu Ala Thr Leu Pro Phe Leu Ser Thr Val Val  
 85 90 95

Thr Asp Lys Leu Phe Val Ile Asp Ala Leu Tyr Ser Asp Asn Ile Ser  
 100 105 110

Lys Glu Asn Cys Val Phe Arg Ser Ser Leu Ile Gly Ile Val Cys Gly  
 115 120 125

Val Phe Tyr Pro Ser Ser Leu Ala Phe Thr Lys Asn Gly Arg Leu Ala  
 130 135 140

Thr Lys Tyr His Thr Val Pro Leu Pro Pro Lys Gly Arg Val Leu Ile  
 145 150 155 160

His Trp Met Thr Leu Cys Gln Thr Gln Met Lys Leu Met Ala Ile Pro

165 170 175  
Leu Val Phe Gln Ile Met Phe Gly Ile Leu Asn Gly Leu Tyr His Tyr  
180 185 190

Ala Val Phe Glu Glu Thr Leu Glu Lys Thr Ile His Glu Glu  
195 200 205

<210> 829  
<211> 78  
<212> PRT  
<213> Homo sapiens

<400> 829  
Tyr Asn Ile Trp Phe Val Asn Ser Glu Thr Leu Pro Val Cys Leu Leu  
1 5 10 15

Leu Ser Ile Glu Leu Val Phe Ser Phe Ser Trp Leu Ser Ser Cys Leu  
20 25 30

Leu Ile Leu Ser His Met Leu Pro Ser Leu Leu Val Pro Ser Ser Leu  
35 40 45

Leu Tyr Phe Thr Arg Phe Gly Thr Cys Ser Pro Leu Asp Phe Phe Phe  
50 55 60

Asn Ile Leu Ala Phe Pro Arg Cys Lys Ser Leu Pro Pro Cys  
65 70 75

<210> 830  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 830  
Arg Phe Gly Arg Arg Thr Gly Arg Arg Trp Arg Arg Thr Thr Gly Gly  
1 5 10 15

Ala Glu Gly Val Arg Gly Gly Asp Gly Arg Arg Gly Gly Pro Gly Pro  
20 25 30

Leu Leu Ser Arg Val Gly Arg Leu Gly Leu Ala Asp Arg Ala Arg Ala  
35 40 45

Phe Tyr Glu Asp Gly Gly Asp Glu Asp Ile Val Thr Ile Ser Gln Ala  
50 55 60

Thr Pro Ser Ser Val Ser Arg Gly Thr Ala Pro Ser Asp Asn Arg Val  
65 70 75 80

Thr Ser Phe Arg Asp Leu Ile His Asp Gln Asp Glu Asp Glu Glu Glu  
85 90 95

Glu Glu Gly Gln Arg  
100

<210> 831

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 831

Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser  
1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile  
20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser  
35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa  
50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys  
65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys  
85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro  
100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser  
115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val  
130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr  
145 150 155

<210> 832  
<211> 238  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (221)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 832

Tyr His Leu Tyr Phe Lys Met Gly Asp Pro Asn Ser Arg Lys Lys Gln  
1 5 10 15  
Ala Leu Asn Arg Leu Arg Ala Gln Leu Arg Lys Lys Lys Glu Ser Leu  
20 25 30  
Ala Asp Gln Phe Asp Phe Lys Met Tyr Ile Ala Phe Val Phe Lys Glu  
35 40 45  
Lys Lys Lys Lys Ser Ala Leu Phe Glu Val Ser Glu Val Ile Pro Val  
50 55 60  
Met Thr Asn Asn Tyr Glu Glu Asn Ile Leu Lys Gly Val Arg Asp Ser  
65 70 75 80  
Ser Tyr Ser Leu Glu Ser Ser Leu Glu Leu Leu Gln Lys Asp Val Val  
85 90 95  
Gln Leu His Ala Pro Arg Tyr Gln Ser Met Arg Arg Asp Val Ile Gly  
100 105 110  
Cys Thr Gln Glu Met Asp Phe Ile Leu Trp Pro Arg Asn Asp Ile Glu  
115 120 125  
Lys Ile Val Cys Leu Leu Phe Ser Arg Trp Lys Glu Ser Asp Glu Pro  
130 135 140  
Phe Arg Pro Val Gln Ala Lys Phe Glu Phe His His Gly Asp Tyr Glu  
145 150 155 160  
Lys Gln Phe Leu His Val Leu Ser Arg Lys Asp Lys Thr Gly Ile Val  
165 170 175  
Val Asn Asn Pro Asn Gln Ser Val Phe Leu Phe Ile Asp Arg Gln His  
180 185 190  
Leu Gln Thr Pro Lys Asn Lys Ala Thr Ile Phe Lys Leu Cys Ser Ile

195                      200                      205

Cys Leu Tyr Leu Pro Gln Glu Gln Leu Thr His Trp Xaa Ser Trp His  
210                      215                      220

His Arg Gly Ser Pro Pro Ser Leu Tyr Ala Arg Val Glu Tyr  
225                      230                      235

<210> 833  
<211> 146  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 833

Asn Ser Ala Arg Ala Gln Met Ala Leu Glu Asp Gln Ala Ala Thr Leu  
1                      5                      10                      15

Glu Tyr Lys Thr Ile Lys Glu His Leu Ser Ser Lys Ser Pro Asn His  
20                      25                      30

Gly Val Asn Leu Val Glu Asn Leu Asp Ser Leu Xaa Pro Lys Val Pro  
35                      40                      45

Gln Arg Glu Ala Ser Leu Gly Pro Pro Gly Ala Ser Leu Ser Gln Thr  
50                      55                      60

Gly Leu Ser Lys Arg Leu Glu Met His His Ser Ser Ser Tyr Gly Val  
65                      70                      75                      80

Asp Tyr Lys Arg Ser Tyr Pro Thr Asn Ser Leu Thr Arg Ser His Gln  
85                      90                      95

Ala Pro Leu Ser Lys Glu Thr Thr Leu Thr Pro Pro Ile Pro Leu Thr  
100                      105                      110

Ser Pro Glu Thr Arg Ala Leu Ala Gly Glu Thr Thr Arg Arg Pro Pro  
115                      120                      125

Arg Arg Gly Trp Thr Pro Ser Arg Cys Thr Ala Pro Ser His Leu Ala  
130                      135                      140

Arg Pro  
145

&lt;210&gt; 834

&lt;211&gt; 239

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 834

Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala  
1 5 10 15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala  
20 25 30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg  
35 40 45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val  
50 55 60

Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu  
65 70 75 80

Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro  
85 90 95

Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe  
100 105 110

Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser  
115 120 125

Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp  
130 135 140

Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala  
145 150 155 160

Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg  
165 170 175

Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu  
180 185 190

Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly  
195 200 205

Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr  
210 215 220

Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu



225

230

235

&lt;210&gt; 835

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 835

Gln Leu Thr Thr Val Arg Arg Leu Leu Ser Glu Lys Ala Thr His Val  
1 5 10 15

Asn Thr Arg Asp Glu Asp Glu Xaa Thr Pro Leu His Arg Ala Ala Tyr  
20 25 30

Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp  
35 40 45

Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys  
50 55 60

Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala  
65 70 75 80

Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala  
85 90 95

Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Met Asn  
100 105 110

Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe  
115 120 125

Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val  
130 135 140

Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser  
145 150

&lt;210&gt; 836

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 836

Asn Thr Phe Ile His Glu Asp Ile Trp Asn Ile Arg Ser Ile Cys Ser  
1 5 10 15  
Thr Thr Asn Ile Gln Cys Lys Asn Gly Lys Met Asn Cys His Glu Gly  
20 25 30  
Val Val Lys Val Thr Asp Cys Arg Asp Thr Gly Ser Ser Arg Ala Pro  
35 40 45  
Asn Cys Arg Tyr Arg Ala Ile Ala Ser Thr Arg Arg Val Val Ile Ala  
50 55 60  
Cys Glu Gly Asn Pro Gln Val Pro Val His Phe Asp Gly  
65 70 75

&lt;210&gt; 837

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 837

Arg Asp Ala Pro Gly Ile Ser Leu Thr Val Leu Leu Pro His Gln Gln  
1 5 10 15  
Pro Pro Thr Phe Gly Pro Thr Leu Pro Pro Met Arg Glu Tyr Pro Ala  
20 25 30  
Trp Met Leu Cys Phe Ser Gly Leu Ser Leu Ser Pro Phe Leu Gln Gly  
35 40 45  
Met Leu Val Ser Leu Ala Ser Gln Cys Pro Asn Trp Ser Pro Glu Cys  
50 55 60  
Leu Val Leu Ser Gln Glu Thr Ala Glu His Trp Pro Ser Thr Pro Lys  
65 70 75 80  
Arg Pro Leu His

&lt;210&gt; 838

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 838

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys  
1 5 10 15  
Phe Ser Val Val Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met  
20 25 30  
Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile  
35 40 45  
Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile  
50 55 60  
Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys  
65 70 75 80  
Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile  
85 90 95

&lt;210&gt; 839

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 839

Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe  
1 5 10 15  
Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp  
20 25 30  
Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly  
35 40 45  
Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile  
50 55 60

<210> 840  
<211> 288  
<212> PRT  
<213> Homo sapiens

<400> 840

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln  
1 5 10 15  
Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile  
20 25 30  
Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser  
35 40 45  
Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro  
50 55 60  
Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys  
65 70 75 80  
Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala  
85 90 95  
Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn  
100 105 110  
Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu  
115 120 125  
Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln  
130 135 140  
Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro  
145 150 155 160  
Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln  
165 170 175  
Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr  
180 185 190  
Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr  
195 200 205  
Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp

210 215 220  
Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg  
225 230 235 240  
Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile  
245 250 255  
Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile  
260 265 270  
Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln  
275 280 285

<210> 841  
<211> 216  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 841  
Gly Xaa Glu Gly Lys Gly Arg Glu Gly Gly Val Thr Arg Gly Arg Ala  
1 5 10 15  
Arg Ala Pro Gly Ala Ala Arg Arg Arg Val Glu Leu Asp Arg Val Cys  
20 25 30  
Cys Gln Arg Arg Glu Leu Arg Pro Pro Phe Tyr Asn Ser Ser Thr Arg  
35 40 45  
Ala Gly His Arg Glu Gln Arg Ala Arg Val Ser Arg Asn Pro Ile Pro  
50 55 60  
Ser Asp Arg Ile Ser Pro Pro Gln Pro Asn Gly Glu Ile Ser Gly Asn  
65 70 75 80  
Met Ala Thr Glu His Val Asn Gly Asn Gly Thr Glu Glu Pro Met Asp  
85 90 95  
Thr Thr Ser Ala Val Ile His Ser Glu Asn Phe Gln Thr Leu Leu Asp  
100 105 110

Ala Gly Leu Pro Gln Lys Val Ala Glu Lys Leu Asp Glu Ile Tyr Val  
115 120 125  
Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu Ala  
130 135 140  
Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln Phe  
145 150 155 160  
Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu Cys  
165 170 175  
Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys Val  
180 185 190  
Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu  
195 200 205  
Glu Arg Thr Gly Ser His Leu Met  
210 215

<210> 842  
<211> 189  
<212> PRT  
<213> Homo sapiens

<400> 842  
Asp Ser Asp Gly Ser Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val  
1 5 10 15  
Glu Ile Leu Pro Phe Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn  
20 25 30  
Leu Asp Val Leu Glu Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr  
35 40 45  
Pro Asn Leu Pro Asn Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys  
50 55 60  
Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe  
65 70 75 80  
Pro Glu Ala Ile Ser Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly  
85 90 95  
Val Leu Val His Cys Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr  
100 105 110  
Val Ala Tyr Leu Met Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr

115                      120                      125  
 Asp Ile Val Lys Met Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe  
 130                      135                      140  
 Met Gly Gln Leu Leu Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser Pro  
 145                      150                      155                      160  
 Cys Asp Asn Arg Val Pro Ala Gln Gln Leu Tyr Phe Thr Thr Pro Ser  
 165                      170                      175  
 Asn Gln Asn Val Tyr Gln Val Asp Ser Leu Gln Ser Thr  
 180                      185  
  
 <210> 843  
 <211> 220  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 843  
 Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp  
 1                      5                      10                      15  
 Glu Ala Asp Arg Ile Phe Asp Val Gly Phe Glu Glu Glu Leu Lys Gln  
 20                      25                      30  
 Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe Ser Ala  
 35                      40                      45  
 Thr Gln Thr Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys  
 50                      55                      60  
 Glu Pro Leu Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val  
 65                      70                      75                      80  
 Asp Gly Leu Glu Gln Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe  
 85                      90                      95  
 Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile  
 100                      105                      110  
 Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg  
 115                      120                      125

Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu  
130 135 140

Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp  
145 150 155 160

Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg  
165 170 175

Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu  
180 185 190

Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser  
195 200 205

Lys Val Pro Leu Ser Glu Phe Xaa Leu Phe Leu Val  
210 215 220

<210> 844

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844

Arg Pro Pro Phe Val Pro Lys His Pro Ala His Ala Asp Ser Leu Leu  
1 5 10 15

Gly Ser Leu Arg Tyr Leu Ser Thr Gln Thr Leu Leu Pro His Pro Ile  
20 25 30

Ser Pro Glu Thr Pro Ala Phe Xaa Leu Thr Ile Phe Pro Leu Pro Ala  
35 40 45

Phe Arg Phe Leu Leu Gly Ala Gln Arg Pro Leu Trp Gly Val Ala Ser  
50 55 60

Ser Pro Pro Thr Pro Pro His Pro Pro Pro Leu Pro Arg Gln Ala Ser  
65 70 75 80

Pro Cys Arg



<210> 845  
<211> 114  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 845  
Xaa Ser Ser Arg Thr Cys Glu Gly Arg Val Leu Ser Ser Val Xaa Pro  
1 5 10 15  
Leu Ala His Val Ala Ser Val Phe Leu Lys Leu Pro Asp Leu Glu Xaa  
20 25 30  
Leu Met Lys Arg Glu Asn Gln Lys Ile Leu Thr Pro Leu Val Ser Leu  
35 40 45  
Asp Thr Pro Gly Lys Ala Thr Val Gln Val Val Ile Leu Ala Asp Pro  
50 55 60  
Asp Gly His Glu Ile Cys Phe Val Gly Asp Glu Ala Phe Arg Glu Leu  
65 70 75 80  
Ser Lys Met Asp Pro Glu Gly Ser Lys Leu Leu Asp Asp Ala Met Ala  
85 90 95  
Ala Asp Lys Ser Asp Glu Trp Phe Ala Lys His Asn Lys Pro Lys Ala  
100 105 110  
Ser Gly

<210> 846  
<211> 68  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 846

Ser Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro  
1 5 10 15

Ala Leu Thr Val Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys  
20 25 30

Asp Pro Asn Pro Asp Asp Pro Leu Val Pro Glu Ile Ala His Thr Tyr  
35 40 45

Lys Ala Asp Arg Glu Lys Tyr Asn Arg Leu Ala Arg Glu Trp Thr Gln  
50 55 60

Lys Tyr Ala Met  
65

&lt;210&gt; 847

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 847

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu  
1 5 10 15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr  
20 25 30

Gly Arg Pro Asp Ala Ala Met Ala Glu Leu Pro Gly Pro Phe Leu Cys  
35 40 45

Gly Ala Leu Leu Gly Phe Leu Cys Leu Ser Gly Leu Ala Val Glu Val  
50 55 60

Lys Val Pro Thr Glu Pro Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu  
65 70 75 80

Leu Thr Cys Thr Tyr Ser Thr Ser Val Gly Asp Ser Phe Ala Leu Glu  
85 90 95

Trp Ser Phe Val Gln Pro Gly Lys Pro Ile Ser Glu Ser His Pro Ile  
100 105 110

Leu Tyr Phe Thr Asn Gly His Leu Tyr Pro Thr Gly Ser Lys Ser Lys  
115 120 125

Arg Val Ser Leu Leu Gln Asn Pro Pro Thr Val Gly Val Ala Thr Leu  
130 135 140

Lys Leu Thr Asp Val His Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln  
145 150 155 160

Val Asn Asn Pro Pro Asp Phe Tyr Thr Asn Gly Leu Gly Leu Ile Asn  
165 170 175

Leu Thr Val Leu Val Pro Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly  
180 185 190

Gln Thr Ser Val Gly Gly Ser Thr Ala Leu Arg Cys Ser Ser Ser Glu  
195 200 205

Gly Ala Pro Lys Pro Val Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro  
210 215 220

Thr Pro Ser Pro Gly Ser Met Val Gln Asp Glu Val Ser Gly Gln Leu  
225 230 235 240

Ile Leu Thr Asn Leu Ser Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val  
245 250 255

Ala Thr Asn Gln Met Gly Ser Ala Ser Cys Glu Leu Thr Leu Ser Val  
260 265 270

Thr Glu Pro Ser Gln Gly Arg Val Ala Gly Ala Leu Ile Gly Val Leu  
275 280 285

Leu Gly Val Leu Leu Leu Ser Val Ala Ala Phe Cys Leu Val Arg Phe  
290 295 300

Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp  
305 310 315 320

Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met  
325 330 335

Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser  
340 345 350

Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val  
355 360 365

&lt;210&gt; 848

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 848

Leu Asp His Ile Val Asp Lys Val Lys Glu Cys Val Asp His Leu Ser  
 1 5 10 15  
 Arg Asp Glu Asp Glu Glu Lys Leu Val Ala Ser Leu Trp Gly Ala Glu  
 20 25 30  
 Arg Cys Leu Arg Val Leu Glu Ser Val Thr Val His Asn Pro Glu Asn  
 35 40 45  
 Gln Ser Tyr Leu Ile Ala Tyr Lys Asp Ser Gln Leu Ile Val Ser Ser  
 50 55 60  
 Ala Lys Ala Leu Gln His Cys Glu Glu Leu Ile Gln Gln Tyr Asn Arg  
 65 70 75 80  
 Ala Glu Asp Ser Ile Cys Leu Ala Asp Ser Lys Pro Leu Pro His Gln  
 85 90 95  
 Asn Val Thr Asn His Val Gly Lys Ala Val Glu Asp Cys Met Arg Ala  
 100 105 110  
 Ile Ile Gly Val Leu Leu Asn Leu Thr Asn Asp Asn Glu Trp Gly Ser  
 115 120 125  
 Thr Lys Thr Gly Glu Gln Asp Gly Leu Ile Gly Thr Ala Leu Asn Cys  
 130 135 140  
 Val Leu Gln Val Pro Lys Tyr Leu Pro Gln Glu Gln Arg Phe Asp Ile  
 145 150 155 160  
 Arg Val Leu Gly Leu Gly Leu Leu Ile Asn Leu Val Glu Tyr Ser Ala  
 165 170 175  
 Arg Asn Arg His Cys Leu Val Asn Met Glu Thr Ser Cys Ser Phe Asp  
 180 185 190  
 Ser Ser Ile Cys Ser Gly Glu Gly Asp Asp Ser Leu Arg Ile Gly Gly  
 195 200 205  
 Gln Val His Ala Val Gln Leu  
 210 215

&lt;210&gt; 849

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

Gly Lys Ala Glu Gly Val Cys Gly Leu Ser His Arg Gln Glu Cys Gln

1 5 10 15  
Asp Pro Ala Gly Ala Leu Glu Ser Leu Arg Leu Ala Leu Ala Ser Arg  
20 25 30  
Leu Leu Pro Asp Phe Leu Leu Glu Arg Arg Leu Thr Leu Ala Asp Ala  
35 40 45  
Leu Glu Lys Cys Leu Lys Lys Gly Lys Gly Glu Glu Gln Ala Leu Ala  
50 55 60  
Ala Ala Val Leu Gly Leu Leu Cys Val Gln Leu Gly Pro Gly Pro Lys  
65 70 75 80  
Gly Glu Glu Leu Phe His Ser Leu Gln Pro Leu Leu Val Ser Val Leu  
85 90 95  
Ser Asp Ser Thr Ala Ser Pro Ala Ala Arg Leu His Cys Ala Ser Ala  
100 105 110  
Leu Gly Leu Gly Cys Tyr Val Ala Ala Ala Asp Ile Gln Asp Leu Val  
115 120 125  
Ser Cys Leu Ala Cys Leu Glu Ser Val Phe Ser Arg Phe Tyr Gly Leu  
130 135 140  
Gly Gly Ser Ser Thr Ser Pro Val Val Pro Ala Ser Leu His Gly Leu  
145 150 155 160  
Leu Ser Ala Ala Leu Gln Ala Trp Ala Leu Leu Leu Thr Ile Cys Pro  
165 170 175  
Ser Thr Gln Ile Ser His Ile Leu Asp Arg Gln Leu Pro Arg Leu Pro  
180 185 190  
Gln Leu Leu Ser Ser Glu Ser Val Asn Leu Arg Ile Ala Ala Gly Glu  
195 200 205  
Thr Ile Ala Leu Leu Phe Glu Leu Ala Arg Asp Leu Glu Glu Glu Phe  
210 215 220  
Val Tyr Glu Asp Met Glu Ala Leu Cys Ser Val Leu Arg Thr Leu Ala  
225 230 235 240  
Thr Asp Ser Asn Lys Tyr Arg Ala Lys Ala Asp Arg Arg Arg Gln Arg  
245 250 255  
Ser Thr Phe Arg Ala Val Leu His Ser Val Glu Gly Gly Glu Cys Glu  
260 265 270  
Glu Glu Ile Val Arg Phe Gly Phe Glu Val Leu Tyr Met Asp Ser Trp

275	280	285
Ala Arg His Arg Ile Tyr	Ala Ala Phe Lys Glu Val	Leu Gly Ser Gly
290	295	300
Met His His His Leu Gln Asn Asn Glu Leu Leu Arg Asp Ile Phe Gly		
305	310	315 320
Leu Gly Pro Val Leu Leu Leu Asp Ala Thr Ala Leu Lys Ala Cys Lys		
325	330	335
Val Pro Arg Phe Glu Lys His Leu Tyr Asn Ala Ala Ala Phe Lys Ala		
340	345	350
Arg Thr Lys Ala Arg Ser Arg Val Arg Asp Lys Arg Ala Asp Ile Leu		
355	360	365

&lt;210&gt; 850

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (190)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 850

Ala Ser Ala Ser Ile Cys Ser Gly Ile Lys Tyr Ala Phe Gln Val Ile  
1 5 10 15

Gly Glu Leu His Ser Gln Leu Asp Gly Ser Glu Val Leu Leu Leu Thr  
20 25 30

Asp Gly Glu Asp Asn Thr Ala Ser Ser Cys Ile Asp Glu Val Lys Gln  
35 40 45

Ser Gly Ala Ile Val His Phe Ile Ala Leu Gly Arg Ala Ala Asp Glu  
50 55 60

Ala Val Ile Glu Met Ser Lys Ile Thr Gly Gly Ser His Phe Tyr Val  
65 70 75 80

Ser Asp Glu Ala Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Xaa  
85 90 95

Thr Ser Gly Asn Thr Asp Leu Ser Xaa Lys Ser Leu Gln Leu Glu Ser  
100 105 110

Lys Gly Leu Thr Leu Asn Ser Asn Ala Trp Met Asn Asp Thr Val Ile  
115 120 125

Ile Asp Ser Thr Val Gly Lys Asp Thr Phe Phe Leu Ile Thr Trp Asn  
130 135 140

Ser Leu Pro Pro Ser Ile Ser Leu Trp Asp Pro Ser Gly Thr Ile Met  
145 150 155 160

Glu Asn Phe Thr Val Asp Ala Thr Ser Lys Met Ala Tyr Leu Ser Ile  
165 170 175

Pro Gly Thr Xaa Lys Val Gly Thr Trp Ala Tyr Asn Leu Xaa Ala Lys  
180 185 190

Ala Xaa Pro Glu Thr Leu Thr Ile Thr Val Thr Ser Arg Ala Xaa Lys  
195 200 205

Phe Phe Cys Ala Ser Asn His Ser Glu Cys  
210 215

<210> 851  
<211> 303  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (255)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 851  
Gly Cys Leu Gly Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu  
1 5 10 15  
Ser Val Leu Gly Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser  
20 25 30  
Lys Lys Leu Phe Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu  
35 40 45  
Ala Met Ile Phe Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly  
50 55 60  
Glu Ile Val Leu Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu  
65 70 75 80  
Ala Leu Gln Phe Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile  
85 90 95  
Asn Lys Glu Gly Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly  
100 105 110  
Ala Thr Arg Val His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly  
115 120 125  
Val Tyr Arg Val Xaa Asp Gln Val Lys Lys Glu Val Gly Asp Val Ser  
130 135 140  
Ile Leu Ile Asn Asn Ala Gly Ile Val Thr Gly Lys Lys Phe Leu Asp  
145 150 155 160  
Cys Pro Asp Glu Leu Met Glu Lys Ser Phe Asp Val Asn Phe Lys Ala  
165 170 175  
His Leu Trp Thr Tyr Lys Ala Phe Leu Pro Ala Met Ile Ala Asn Asp  
180 185 190



His Gly His Leu Val Cys Ile Ser Ser Ser Ala Gly Leu Ser Gly Val  
195 200 205  
Asn Gly Leu Ala Asp Tyr Cys Ala Ser Lys Phe Ala Ala Phe Gly Phe  
210 215 220  
Ala Glu Ser Val Phe Val Glu Thr Phe Val Gln Lys Gln Lys Gly Ile  
225 230 235 240  
Lys Thr Thr Ile Val Cys Pro Phe Phe Ile Lys Thr Gly Met Xaa Glu  
245 250 255  
Gly Cys Thr Thr Gly Cys Pro Ser Leu Leu Pro Ile Leu Glu Pro Lys  
260 265 270  
Tyr Ala Val Glu Lys Ile Val Glu Ala Ile Leu Gln Glu Lys Met Tyr  
275 280 285  
Leu Tyr Met Pro Lys Leu Leu Tyr Phe Met Met Phe Leu Lys Arg  
290 295 300

<210> 852  
<211> 340  
<212> PRT  
<213> Homo sapiens

<400> 852  
Arg Thr Val Ile Asp Ala Met Ser Ala Leu Leu Arg Leu Leu Arg Thr  
1 5 10 15  
Gly Ala Pro Ala Ala Ala Cys Leu Arg Leu Gly Thr Ser Ala Gly Thr  
20 25 30  
Gly Ser Arg Arg Ala Met Ala Leu Tyr His Thr Glu Glu Arg Gly Gln  
35 40 45  
Pro Cys Ser Gln Asn Tyr Arg Leu Phe Phe Lys Asn Val Thr Gly His  
50 55 60  
Tyr Ile Ser Pro Phe His Asp Ile Pro Leu Lys Val Asn Ser Lys Glu  
65 70 75 80  
Glu Asn Gly Ile Pro Met Lys Lys Ala Arg Asn Asp Glu Tyr Glu Asn  
85 90 95  
Leu Phe Asn Met Ile Val Glu Ile Pro Arg Trp Thr Asn Ala Lys Met  
100 105 110

Glu Ile Ala Thr Lys Glu Pro Met Asn Pro Ile Lys Gln Tyr Val Lys  
115 120 125

Asp Gly Lys Leu Arg Tyr Val Ala Asn Ile Phe Pro Tyr Lys Gly Tyr  
130 135 140

Ile Trp Asn Tyr Gly Thr Leu Pro Gln Thr Trp Glu Asp Pro His Glu  
145 150 155 160

Lys Asp Lys Ser Thr Asn Cys Phe Gly Asp Asn Asp Pro Ile Asp Val  
165 170 175

Cys Glu Ile Gly Ser Lys Ile Leu Ser Cys Gly Glu Val Ile His Val  
180 185 190

Lys Ile Leu Gly Ile Leu Ala Leu Ile Asp Glu Gly Glu Thr Asp Trp  
195 200 205

Lys Leu Ile Ala Ile Asn Ala Asn Asp Pro Glu Ala Ser Lys Phe His  
210 215 220

Asp Ile Asp Asp Val Lys Lys Phe Lys Pro Gly Tyr Leu Glu Ala Thr  
225 230 235 240

Leu Asn Trp Phe Arg Leu Tyr Lys Val Pro Asp Gly Lys Pro Glu Asn  
245 250 255

Gln Phe Ala Phe Asn Gly Glu Phe Lys Asn Lys Ala Phe Ala Leu Glu  
260 265 270

Val Ile Lys Ser Thr His Gln Cys Trp Lys Ala Leu Leu Met Lys Lys  
275 280 285

Cys Asn Gly Gly Ala Ile Asn Cys Thr Asn Val Gln Ile Ser Asp Ser  
290 295 300

Pro Phe Arg Cys Thr Gln Glu Glu Ala Arg Ser Leu Val Glu Ser Val  
305 310 315 320

Ser Ser Ser Pro Asn Lys Glu Ser Asn Glu Glu Glu Val Trp His  
325 330 335

Phe Leu Gly Lys  
340

&lt;210&gt; 853

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (165)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 853

Ala Asp Leu Ile Ser Leu Pro Thr Thr Val Glu Gly Leu Gln Lys Ser  
1 5 10 15

Val Ala Ser Ile Gly Asn Thr Leu Asn Ser Val His Leu Ala Val Glu  
20 25 30

Ala Leu Gln Lys Thr Val Asp Glu His Lys Lys Thr Met Glu Leu Leu  
35 40 45

Gln Ser Asp Met Asn Gln His Phe Leu Lys Glu Thr Pro Gly Ser Asn  
50 55 60

Gln Ile Ile Pro Ser Pro Ser Ala Thr Ser Glu Leu Asp Asn Lys Thr  
65 70 75 80

His Ser Glu Asn Leu Lys Gln Asp Ile Leu Tyr Leu His Asn Ser Leu  
85 90 95

Glu Glu Val Asn Ser Ala Leu Val Gly Tyr Gln Arg Gln Asn Asp Leu  
100 105 110

Lys Leu Glu Gly Met Asn Glu Thr Val Ser Asn Leu Thr Gln Arg Val  
115 120 125

Asn Leu Ile Glu Ser Asp Val Val Ala Met Ser Lys Val Glu Lys Lys  
130 135 140

Ala Asn Leu Ser Phe Ser Met Met Gly Asp Arg Ser Ala Thr Leu Lys  
145 150 155 160

Arg Gln Ser Leu Xaa Gln Val Thr Asn Arg Thr Asp Thr Val Lys Ile  
165 170 175

Gln Ser Ile Lys Lys Glu Asp Ser Ser Asn Ser Gln Val Ser Lys Leu  
180 185 190

Arg Glu Lys Leu Gln Leu Ile Ser Ala Leu Thr Asn Lys Pro Glu Ser  
195 200 205

Asn Arg Pro Pro Glu Thr Ala Asp Glu Glu Gln Val Glu Ser Phe Thr  
210 215 220

Ser Lys Pro Ser Ala Leu Pro Lys Phe Ser Gln Phe Leu Gly Asp Pro  
225 230 235 240

Val Glu Lys Ala Ala Gln Leu Arg Pro Ile Ser Leu Pro Gly Val Ser  
245 250 255  
Ser Thr Glu Asp Leu Gln Asp Leu Phe Arg Lys Thr Gly Gln Asp Val  
260 265 270  
Asp Gly Lys Leu Thr Tyr Gln Glu Ile Trp Thr Ser Leu Gly Ser Ala  
275 280 285  
Met Pro Glu Pro Glu Ser Leu Arg Ala Phe Asp Ser Asp Gly Asp Gly  
290 295 300  
Arg Tyr Ser Phe Leu Glu Leu Arg Val Ala Leu Gly Ile  
305 310 315

<210> 854  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 854  
Leu Leu Phe Asn Phe Lys Gln Val Phe Phe Ala Ser Val Arg Ser Gly  
1 5 10 15  
Gly Ser Ser Gln Val Phe Phe Met Thr Leu Asn Arg Asn Ser Met Met  
20 25 30

Asn Trp

<210> 855  
<211> 232  
<212> PRT  
<213> Homo sapiens

<400> 855  
Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu  
1 5 10 15  
Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Gly Gly  
20 25 30  
Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly  
35 40 45  
Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser

50                      55                      60  
 His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly  
 65                      70                      75                      80  
 Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys  
                     85                      90                      95  
 Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro  
                     100                      105                      110  
 Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His  
                     115                      120                      125  
 Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu  
                     130                      135                      140  
 Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly  
 145                      150                      155                      160  
 Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr  
                     165                      170                      175  
 Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser  
                     180                      185                      190  
 Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr  
                     195                      200                      205  
 Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys  
                     210                      215                      220  
 Ala Glu Ala His His Ala Glu Leu  
 225                      230

<210> 856

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 856

Cys Phe Ser Ser Ser Gly Phe Thr Cys His Asp His Gly Ala Thr Val  
 1                      5                      10                      15

Leu Gln Tyr Ala Pro Lys Gln Gln Leu Leu Ile Ser Gly Gly Arg Lys  
20 25 30  
Arg His Val Cys Ile Phe Asp Ile Xaa Gln Arg Gln Leu Ile His Thr  
35 40 45  
Phe Gln Ala His Asp Ser Ala Ile Lys Ala Leu Ala Leu Asp Pro Tyr  
50 55 60  
Glu Glu Tyr Phe Thr Thr Gly Ser Ala Glu Gly Asn Ile Lys Val Trp  
65 70 75 80  
Arg Leu Thr Gly His Gly Leu Ile His Ser Phe Lys Ser Glu His Ala  
85 90 95  
Lys Gln Ser Ile Phe Arg Asn Ile Gly Ala Gly Val Met Gln Ile Asp  
100 105 110  
Ile Ile Gln Gly Asn Arg Leu Phe Ser Cys Gly Ala Asp Gly Thr Leu  
115 120 125  
Lys Thr Arg Val Leu Pro Asn Ala Phe Asn Ile Pro Asn Arg Ile Leu  
130 135 140  
Asp Ile Leu  
145

&lt;210&gt; 857

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 857

Pro Arg Val Arg Ile Asn Lys Glu Ser Glu Val Tyr Lys Met Leu Gln

1 5 10 15  
Glu Lys Gln Glu Leu Asn Glu Pro Leu Lys Gln Ser Thr Ser Phe Leu  
20 25 30  
Ile Leu Gln Glu Ile Leu Glu Ser Glu Ile Lys Gly Asp Leu Asn Asn  
35 40 45  
Pro Gln Asp Ser Glu Val Leu Lys Leu Leu Xaa Pro Xaa Val Xaa Ala  
50 55 60  
Ser Ile Gly Asn Ala Gln Lys Val Pro Met Cys Asp Lys Cys Gly Pro  
65 70 75 80  
Gly Ile Val Gly Met Phe Val Lys Leu Arg Gly Pro Ser Ser Pro Pro  
85 90 95

<210> 858  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 858  
Asp Thr Ser Glu Ala Ile Leu Thr Ser Glu Tyr Pro Ser Ser Ser Leu  
1 5 10 15  
Lys Thr Glu Thr Ser His Leu Glu Asn Val Asn Leu Cys Cys His Leu  
20 25 30  
Val Ala Gly Val Ser Arg His Lys Thr Glu Phe Lys Lys  
35 40 45

<210> 859  
<211> 758  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (590)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 859  
Lys Met Ser Glu Asn Ser Ser Asp Ser Asp Ser Ser Cys Gly Trp Thr

1	5	10	15
Val Ile Ser His Glu Gly Ser Asp Ile Glu Met Leu Asn Ser Val Thr	20	25	30
Pro Thr Asp Ser Cys Glu Pro Ala Pro Glu Cys Ser Ser Leu Glu Gln	35	40	45
Glu Glu Leu Gln Ala Leu Gln Ile Glu Gln Gly Glu Ser Ser Gln Asn	50	55	60
Gly Thr Val Leu Met Glu Glu Thr Ala Tyr Pro Ala Leu Glu Glu Thr	65	70	75
Ser Ser Thr Ile Glu Ala Glu Glu Gln Lys Ile Pro Glu Asp Ser Ile	85	90	95
Tyr Ile Gly Thr Ala Ser Asp Asp Ser Asp Ile Val Thr Leu Glu Pro	100	105	110
Pro Lys Leu Glu Glu Ile Gly Asn Gln Glu Val Val Ile Val Glu Glu	115	120	125
Ala Gln Ser Ser Glu Asp Phe Asn Met Gly Ser Ser Ser Ser Ser Gln	130	135	140
Tyr Thr Phe Cys Gln Pro Glu Thr Val Phe Ser Ser Gln Pro Ser Asp	145	150	155
Asp Glu Ser Ser Ser Asp Glu Thr Ser Asn Gln Pro Ser Pro Ala Phe	165	170	175
Arg Arg Arg Arg Ala Arg Lys Lys Thr Val Ser Ala Ser Glu Ser Glu	180	185	190
Asp Arg Leu Val Ala Glu Gln Glu Thr Glu Pro Ser Lys Glu Leu Ser	195	200	205
Lys Arg Gln Phe Ser Ser Gly Leu Asn Lys Cys Val Ile Leu Ala Leu	210	215	220
Val Ile Ala Ile Ser Met Gly Phe Gly His Phe Tyr Gly Thr Ile Gln	225	230	235
Ile Gln Lys Arg Gln Gln Leu Val Arg Lys Ile His Glu Asp Glu Leu	245	250	255
Asn Asp Met Lys Asp Tyr Leu Ser Gln Cys Gln Gln Glu Gln Glu Ser	260	265	270
Phe Ile Asp Tyr Lys Ser Leu Lys Glu Asn Leu Ala Arg Cys Trp Thr			



275 280 285  
Leu Thr Glu Ala Glu Lys Met Ser Phe Glu Thr Gln Lys Thr Asn Leu  
290 295 300  
Ala Thr Glu Asn Gln Tyr Leu Arg Val Ser Leu Glu Lys Glu Glu Lys  
305 310 315 320  
Ala Leu Ser Ser Leu Gln Glu Glu Leu Asn Lys Leu Arg Glu Gln Ile  
325 330 335  
Arg Ile Leu Glu Asp Lys Gly Thr Ser Thr Glu Leu Val Lys Glu Asn  
340 345 350  
Gln Lys Leu Lys Gln His Leu Glu Glu Glu Lys Gln Lys Lys His Ser  
355 360 365  
Phe Leu Ser Gln Arg Glu Thr Leu Leu Thr Glu Ala Lys Met Leu Lys  
370 375 380  
Arg Glu Leu Glu Arg Glu Arg Leu Val Thr Thr Ala Leu Arg Gly Glu  
385 390 395 400  
Leu Gln Gln Leu Ser Gly Ser Gln Leu His Gly Lys Ser Asp Ser Pro  
405 410 415  
Asn Val Tyr Thr Glu Lys Lys Glu Ile Ala Ile Leu Arg Glu Arg Leu  
420 425 430  
Thr Glu Leu Glu Arg Lys Leu Thr Phe Glu Gln Gln Arg Ser Asp Leu  
435 440 445  
Trp Glu Arg Leu Tyr Val Glu Ala Lys Asp Gln Asn Gly Lys Gln Gly  
450 455 460  
Thr Asp Gly Lys Lys Lys Gly Gly Arg Gly Ser His Arg Ala Lys Asn  
465 470 475 480  
Lys Ser Lys Glu Thr Phe Leu Gly Ser Val Lys Glu Thr Phe Asp Ala  
485 490 495  
Met Lys Asn Ser Thr Lys Glu Phe Val Arg His His Lys Glu Lys Ile  
500 505 510  
Lys Gln Ala Lys Glu Ala Val Lys Glu Asn Leu Lys Lys Phe Ser Asp  
515 520 525  
Ser Val Lys Ser Thr Phe Arg His Phe Lys Asp Thr Thr Lys Asn Ile  
530 535 540  
Phe Asp Glu Lys Gly Asn Lys Arg Phe Gly Ala Thr Lys Glu Ala Ala

545                      550                      555                      560  
Glu Lys Pro Arg Thr Val Phe Ser Asp Tyr Leu His Pro Gln Tyr Lys  
                                 565                      570                      575  
Ala Pro Thr Glu Asn His His Asn Arg Gly Pro Thr Met Xaa Asn Asp  
                                 580                      585                      590  
Gly Arg Lys Glu Lys Pro Val His Phe Lys Glu Phe Arg Lys Asn Thr  
                                 595                      600                      605  
Asn Ser Lys Lys Cys Ser Pro Gly His Asp Cys Arg Glu Asn Ser His  
                                 610                      615                      620  
Ser Phe Arg Lys Ala Cys Ser Gly Val Phe Asp Cys Ala Gln Gln Glu  
625                                   630                      635                      640  
Ser Met Ser Leu Phe Asn Thr Val Val Asn Pro Ile Arg Met Asp Glu  
                                 645                      650                      655  
Phe Arg Gln Ile Ile Gln Arg Tyr Met Leu Lys Glu Leu Asp Thr Phe  
                                 660                      665                      670  
Cys His Trp Asn Glu Leu Asp Gln Phe Ile Asn Lys Phe Phe Leu Asn  
                                 675                      680                      685  
Gly Val Phe Ile His Asp Gln Lys Leu Phe Thr Asp Phe Val Asn Asp  
                                 690                      695                      700  
Val Lys Asp Tyr Leu Arg Asn Met Lys Glu Tyr Glu Val Asp Asn Asp  
705                                   710                      715                      720  
Gly Val Phe Glu Lys Leu Asp Glu Tyr Ile Tyr Arg His Phe Phe Gly  
                                 725                      730                      735  
His Thr Phe Ser Pro Pro Tyr Gly Pro Arg Ser Val Tyr Ile Lys Pro  
                                 740                      745                      750  
Cys His Tyr Ser Ser Leu  
                                 755

&lt;210&gt; 860

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 860

Ala Gly Val His Thr Ile Ser Phe Leu Gly Gly Leu Ala Leu Asn Glu  
1 5 10 15

Gly Val Asn Trp Leu Ile Lys Asn Val Ile Gln Glu Pro Arg Pro Cys  
20 25 30

Gly Gly Pro His Thr Ala Val Gly Thr Lys Tyr Gly Met Pro Ser Ser  
35 40 45

His Ser Gln Phe Met Trp Phe Phe Ser Val Tyr Ser Phe Leu Phe Leu  
50 55 60

Tyr Leu Arg Met His Gln Thr Asn Asn Ala Arg Phe Leu Asp Leu Leu  
65 70 75 80

Trp Arg His Val Leu Ser Leu Gly Leu Leu Ala Val Ala Phe Leu Val  
85 90 95

Ser Tyr Ser Arg Val Tyr Leu Leu Tyr His Thr Trp Ser Gln Val Leu  
100 105 110

Tyr Gly Gly Ile Ala Gly Gly Leu Met Ala Ile Ala Trp Phe Ile Phe  
115 120 125

Thr Gln Glu Val Leu Thr Pro Leu Phe Pro Arg Ile Ala Ala Trp Pro  
130 135 140

Val Ser Glu Phe Phe Leu Ile Arg Asp Thr Ser Leu Ile Pro Asn Val  
145 150 155 160

Leu Trp Phe Glu Tyr Thr Val Thr Arg Ala Glu Ala Arg Xaa Arg Gln  
165 170 175

Arg Lys Leu Gly Thr Lys Leu Gln  
180

<210> 861

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (360)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 861

Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly  
1 5 10 15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro  
20 25 30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala  
35 40 45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg  
50 55 60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp  
65 70 75 80

Ala Gly Arg Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val  
85 90 95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr  
100 105 110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala  
115 120 125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys  
130 135 140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val  
145 150 155 160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile  
165 170 175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln  
180 185 190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser  
195 200 205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn  
210 215 220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro  
225 230 235 240

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu  
 245 250 255  
 Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val  
 260 265 270  
 Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu  
 275 280 285  
 Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val  
 290 295 300  
 Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp  
 305 310 315 320  
 Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu  
 325 330 335  
 Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala  
 340 345 350  
 Pro Pro His Val Thr Val Val Xaa  
 355 360

&lt;210&gt; 862

&lt;211&gt; 518

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (476)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 862

Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr  
 1 5 10 15  
 Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys  
 20 25 30  
 Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met  
 35 40 45  
 Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala  
 50 55 60  
 Ser Val Ser Pro Ser Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser  
 65 70 75 80

Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val  
85 90 95

Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala  
100 105 110

Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys  
115 120 125

Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser Ser  
130 135 140

Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly  
145 150 155 160

Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro  
165 170 175

Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp  
180 185 190

Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg  
195 200 205

Arg Glu Leu Glu Ala Arg Arg Arg Arg Glu Gln Glu Glu Leu Arg  
210 215 220

Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg  
225 230 235 240

Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp  
245 250 255

Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly  
260 265 270

Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala Glu  
275 280 285

Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser Ser  
290 295 300

Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg Pro  
305 310 315 320

Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg Lys  
325 330 335

Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys Glu  
340 345 350

Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys Phe  
 355 360 365  
 Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala Leu  
 370 375 380  
 Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys Asn  
 385 390 395 400  
 Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala Asn  
 405 410 415  
 Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys Ser  
 420 425 430  
 Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys Ala  
 435 440 445  
 Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu Leu  
 450 455 460  
 Ala Gly Glu Glu Ala Pro Gln Glu Lys Gly Gly Xaa Gln Ala Gln His  
 465 470 475 480  
 Arg Ser Leu Ser Pro Ser Glu Trp Arg Gly His Ile Thr Glu Gly Gly  
 485 490 495  
 Glu Arg Arg Gly Gln Gly Ala Arg Gly Gly Ser Gly Leu Gly Gly Gly  
 500 505 510  
 Ala Lys Val Trp Leu Leu  
 515

&lt;210&gt; 863

&lt;211&gt; 438

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

Val Lys Gly Gln Gly Arg Gly Ser Arg Gly Ala Thr His Ala Leu Glu  
 1 5 10 15  
 Ile Trp Val Ile Ala Ser Gly Arg Ser Ala Ser Pro Thr Pro Gln Thr  
 20 25 30  
 Arg Ala Ala Asp Asp Pro Ala Ala Ala Met Ala Leu Leu Arg Gly Val  
 35 40 45

Phe Val Val Ala Ala Lys Arg Thr Pro Phe Gly Ala Tyr Gly Gly Leu  
50 55 60

Leu Lys Asp Phe Thr Ala Thr Asp Leu Ser Glu Phe Ala Ala Lys Ala  
65 70 75 80

Ala Leu Ser Ala Gly Lys Val Ser Pro Glu Thr Val Asp Ser Val Ile  
85 90 95

Met Gly Asn Val Leu Gln Ser Ser Ser Asp Ala Ile Tyr Leu Ala Arg  
100 105 110

His Val Gly Leu Arg Val Gly Ile Pro Lys Glu Thr Pro Ala Leu Thr  
115 120 125

Ile Asn Arg Leu Cys Gly Ser Gly Phe Gln Ser Ile Val Asn Gly Cys  
130 135 140

Gln Glu Ile Cys Val Lys Glu Ala Glu Val Val Leu Cys Gly Gly Thr  
145 150 155 160

Glu Ser Met Ser Gln Ala Pro Tyr Cys Val Arg Asn Val Arg Phe Gly  
165 170 175

Thr Lys Leu Gly Ser Asp Ile Lys Leu Glu Asp Ser Leu Trp Val Ser  
180 185 190

Leu Thr Asp Gln His Val Gln Leu Pro Met Ala Met Thr Ala Glu Asn  
195 200 205

Leu Ala Val Lys His Lys Ile Ser Arg Glu Glu Cys Asp Lys Tyr Ala  
210 215 220

Leu Gln Ser Gln Gln Arg Trp Lys Ala Ala Asn Asp Ala Gly Tyr Phe  
225 230 235 240

Asn Asp Glu Met Ala Pro Ile Glu Val Lys Thr Lys Lys Gly Lys Gln  
245 250 255

Thr Met Gln Val Asp Glu His Ala Arg Pro Gln Thr Thr Leu Glu Gln  
260 265 270

Leu Gln Lys Leu Pro Pro Val Phe Lys Lys Asp Gly Thr Val Thr Ala  
275 280 285

Gly Asn Ala Ser Gly Val Ala Asp Gly Ala Gly Ala Val Ile Ile Ala  
290 295 300

Ser Glu Asp Ala Val Lys Lys His Asn Phe Thr Pro Leu Ala Arg Ile  
305 310 315 320



Val Gly Tyr Phe Val Ser Gly Cys Asp Pro Ser Ile Met Gly Ile Gly  
325 330 335

Pro Val Pro Ala Ile Ser Gly Ala Leu Lys Lys Ala Gly Leu Ser Leu  
340 345 350

Lys Asp Met Asp Leu Val Glu Val Asn Glu Ala Phe Ala Pro Gln Tyr  
355 360 365

Leu Ala Val Glu Arg Ser Leu Asp Leu Asp Ile Ser Lys Thr Asn Val  
370 375 380

Asn Gly Gly Ala Ile Ala Leu Gly His Pro Leu Gly Gly Ser Gly Ser  
385 390 395 400

Arg Ile Thr Ala His Leu Val His Glu Leu Arg Arg Arg Gly Gly Lys  
405 410 415

Tyr Ala Val Gly Ser Ala Cys Ile Gly Gly Gly Gln Gly Ile Ala Val  
420 425 430

Ile Ile Gln Ser Thr Ala  
435

<210> 864

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 864

Thr Leu Phe Asp Phe Ile Ser Leu Tyr Leu Ser Thr Asn Thr Lys Lys  
1 5 10 15

Val Ile Tyr Leu Asp Asp Asp Val Ile Val Gln Gly Asp Ile Gln Glu  
20 25 30

Leu Tyr Asp Thr Thr Leu Ala Leu Gly His Ala Ala Ala Phe Ser Asp  
35 40 45

Asp Cys Asp Leu Pro Ser Ala Gln Asp Ile Asn Arg Leu Val Gly Leu  
50 55 60

Gln Asn Thr Tyr Met Gly Tyr Leu Asp Tyr Arg Lys Lys Ala Ile Lys  
65 70 75 80

Asp Leu Gly Ile Ser Pro Ser Thr Cys Ser Phe Asn Pro Gly Val Ile  
85 90 95

Val Ala Asn Met Thr Glu Trp Lys His Gln Arg Ile Thr Lys Gln Leu  
100 105 110

Glu Lys Trp Met Gln Lys Asn Val Glu Glu Asn Leu Tyr Ser Ser Ser  
115 120 125

Leu Gly Gly Gly Val Ala Thr Ser Pro Xaa Leu Ile Val Phe His Gly  
130 135 140

Lys Tyr Ser Thr Ile Asn Pro Leu Trp His Ile Arg His Leu Gly Trp  
145 150 155 160

Asn Pro Asp Ala Arg Tyr Ser Glu His Phe Leu Gln Glu Ala Lys Leu  
165 170 175

Leu His Trp Asn Gly Arg His Lys Pro Trp Asp Phe Pro Ser Val His  
180 185 190

Asn Asp Leu Trp Glu Ser Trp Phe Val Pro Asp Pro Ala Gly Ile Phe  
195 200 205

Lys Leu Asn His His Ser  
210

&lt;210&gt; 865

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 865

Gly Ser Thr His Ala Ser Asp His Ile Pro Pro Leu Lys Lys Pro Leu  
 1 5 10 15  
 Gly Ala Gln Leu Ile Thr Met Asp Trp Thr Trp Arg Phe Leu Phe Val  
 20 25 30  
 Val Ala Ala Ala Thr Gly Val Gln Ser Gln Val Gln Leu Val Gln Ser  
 35 40 45  
 Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys  
 50 55 60  
 Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln  
 65 70 75 80  
 Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Ile Phe  
 85 90 95  
 Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr  
 100 105 110  
 Ala Asp Glu Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg  
 115 120 125  
 Ser Glu Asp Thr Ala Xaa Tyr Tyr Cys Ala Xaa Xaa Pro Xaa Ala Gly  
 130 135 140  
 Tyr Leu Ser Gln Leu Leu Pro Arg Tyr Gly Arg Leu Gly Pro Arg Asp  
 145 150 155 160  
 His Gly His Arg Leu  
 165

&lt;210&gt; 866

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 866

Lys Gln His Tyr Ile Ala Val Leu Tyr Tyr Ser Val Tyr Asp Val Cys  
 1 5 10 15  
 Glu Asn Ala Arg Phe Lys Met Met Tyr Leu Phe Leu Val Lys Asn Lys  
 20 25 30

Lys Phe Tyr Ala Ile Leu Leu Ile Lys Cys Lys Cys Asp Leu Val Gln  
35 40 45  
Phe Thr Lys Ile Thr Asp Ile Phe His Tyr Ile Glu Thr Val Thr Val  
50 55 60  
Arg Ile Gly His Lys His Gln Leu Leu Pro Ala Ser Gly Lys Leu Leu  
65 70 75 80  
Asn Arg Thr Ala Val Met Ser  
85

<210> 867  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 867  
Phe Phe Gln Lys Ile Met Leu Ser Phe His Glu Glu Gln Glu Val Leu  
1 5 10 15  
Pro Glu Thr Phe Leu Ala Asn Phe Pro Ser Leu Ile Lys Met Asp Ile  
20 25 30  
His Lys Lys Val Thr Asp Pro Ser Val Ala Lys Ser Met Met Ala Cys  
35 40 45  
Leu Leu Ser Ser Leu Lys Ala Asn Gly Ser Arg Gly Ala Phe Cys Glu  
50 55 60  
Val Arg Pro Asp Asp Lys Arg Ile Leu Glu Phe Tyr Ser Lys Leu Gly  
65 70 75 80  
Cys Phe Glu Ile Ala Lys Met Glu Gly Phe Pro Lys Asp Val Val Ile  
85 90 95  
Leu Gly Arg Ser Leu  
100

<210> 868  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 868  
Leu Leu Pro Gly Ser Ala Leu Pro Gly Ala Cys Pro Arg Arg Trp Tyr

1                    5                    10                    15  
 Gly Ser Tyr Leu Val Trp Lys Glu Leu Gly Gly Phe Thr Glu Lys Ala  
                   20                    25                    30  
 Val Val Pro Leu Gly Leu Tyr Thr Gly Gln Leu Ala Leu Asn Trp Ala  
                   35                    40                    45  
 Trp Pro Pro Ile Phe Phe Gly Ala Arg Gln Met Gly Trp Ala Leu Val  
                   50                    55                    60  
 Asp Leu Leu Leu Val Ser Gly Ala Ala Ala Ala Leu Pro Trp Pro Gly  
                   65                    70                    75                    80  
 Thr Arg

<210> 869  
 <211> 562  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 869  
 Leu Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp Leu Asn Phe Val  
                   1                    5                    10                    15  
 Gln Xaa Asn Pro Leu Ser Xaa Lys Lys Pro Thr Val Thr Leu Thr Tyr  
                   20                    25                    30  
 Gly Ser Ser Arg Pro Ser Ile Glu Ile Tyr Arg Pro Pro Ala Ser Arg  
                   35                    40                    45  
 Asn Ala Asp Ser Gly Val His Leu Asn Arg Leu Gln Phe Gln Gln Gln  
                   50                    55                    60  
 Gln Asn Ser Ile His Ala Ala Lys Gln Leu Asp Met Gln Ser Ser Trp  
                   65                    70                    75                    80  
 Val Tyr Glu Thr Gly Arg Leu Cys Glu Pro Glu Val Leu Asn Ser Leu

85 90 95  
Glu Glu Thr Tyr Ser Pro Phe Phe Arg Asn Asn Ser Glu Lys Met Ser  
100 105 110  
Met Glu Asp Glu Asn Phe Arg Lys Arg Lys Leu Pro Val Val Ser Ser  
115 120 125  
Val Val Lys Val Lys Lys Phe Asn His Asp Gly Glu Glu Glu Glu  
130 135 140  
Asp Asp Asp Tyr Gly Ser Arg Thr Gly Ser Ile Ser Ser Ser Val Ser  
145 150 155 160  
Val Pro Ala Lys Pro Glu Arg Arg Pro Ser Leu Pro Pro Ser Lys Gln  
165 170 175  
Ala Asn Lys Asn Leu Ile Leu Lys Ala Ile Ser Glu Ala Gln Glu Ser  
180 185 190  
Val Thr Lys Thr Thr Asn Tyr Ser Thr Val Pro Gln Lys Gln Thr Leu  
195 200 205  
Pro Val Ala Pro Arg Thr Arg Thr Ser Gln Glu Glu Leu Leu Ala Glu  
210 215 220  
Val Val Gln Gly Gln Ser Arg Thr Pro Arg Ile Ser Pro Pro Ile Lys  
225 230 235 240  
Glu Glu Glu Thr Lys Gly Asp Ser Val Glu Lys Asn Gln Gly Thr Gln  
245 250 255  
Gln Arg Gln Leu Leu Ser Arg Leu Gln Ile Asp Pro Val Met Ala Glu  
260 265 270  
Thr Leu Gln Met Ser Gln Asp Tyr Tyr Asp Met Glu Ser Met Val His  
275 280 285  
Ala Asp Thr Arg Ser Phe Ile Leu Lys Lys Pro Lys Leu Ser Glu Glu  
290 295 300  
Val Val Val Ala Pro Asn Gln Glu Ser Gly Met Lys Thr Ala Asp Ser  
305 310 315 320  
Leu Arg Val Leu Ser Gly His Leu Met Gln Thr Arg Asp Leu Val Gln  
325 330 335  
Pro Asp Lys Pro Ala Ser Pro Lys Phe Ile Val Thr Leu Asp Gly Val  
340 345 350  
Pro Ser Pro Pro Gly Tyr Met Ser Asp Gln Glu Glu Asp Met Cys Phe

355                      360                      365  
 Glu Gly Met Lys Pro Val Asn Gln Thr Ala Ala Ser Asn Lys Gly Leu  
 370                      375                      380  
 Arg Gly Leu Leu His Pro Gln Gln Leu His Leu Leu Ser Arg Gln Leu  
 385                      390                      395                      400  
 Glu Asp Pro Asn Gly Ser Phe Ser Asn Ala Glu Met Ser Glu Leu Ser  
 405                      410                      415  
 Val Ala Gln Lys Pro Glu Lys Leu Leu Glu Arg Cys Lys Tyr Trp Pro  
 420                      425                      430  
 Ala Cys Lys Asn Gly Asp Glu Cys Ala Tyr His His Pro Ile Ser Pro  
 435                      440                      445  
 Cys Lys Ala Phe Pro Asn Cys Lys Phe Ala Glu Lys Cys Leu Phe Val  
 450                      455                      460  
 His Pro Asn Cys Lys Tyr Asp Ala Lys Cys Thr Lys Pro Asp Cys Pro  
 465                      470                      475                      480  
 Phe Thr His Val Ser Arg Arg Ile Pro Val Leu Ser Pro Lys Pro Val  
 485                      490                      495  
 Ala Pro Pro Ala Pro Pro Ser Ser Ser Gln Leu Cys Arg Tyr Phe Pro  
 500                      505                      510  
 Ala Cys Lys Lys Met Glu Cys Pro Phe Tyr His Pro Lys His Cys Arg  
 515                      520                      525  
 Phe Asn Thr Gln Cys Thr Arg Pro Asp Cys Thr Phe Tyr His Pro Thr  
 530                      535                      540  
 Ile Asn Val Pro Pro Arg His Ala Leu Lys Trp Ile Arg Pro Gln Thr  
 545                      550                      555                      560  
 Ser Glu

&lt;210&gt; 870

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 870

Pro Asn Gly Ser Ser Asn Val Cys Val Ser Leu Cys Val Phe Val Cys  
 1                      5                      10                      15

Val Cys Ala Leu Lys Thr Ser Asn Ser Leu Glu Ala Trp Gly Gly Ile  
                   20                                  25                                  30  
 Pro Ala Leu Pro Leu Ala Cys Leu Met His His Gln Met Thr Arg Thr  
                   35                                  40                                  45  
 Thr Leu Met Thr Lys Gln His Glu Leu Gly Gly Leu Leu Ala Leu Val  
                   50                                  55                                  60  
 Gln Asn Cys Gln Ser Glu Met Asn Ile Lys Asp Ser Arg Ala Val Gly  
                   65                                  70                                  75                                  80  
 Leu Ser Val Lys Arg Leu Cys Ile Ser Phe Val Asp Glu Phe Cys Glu  
                                   85                                  90                                  95  
 Arg Thr Glu Arg Pro Leu Tyr Leu Ala Gln Gly Leu Phe Met Lys Arg  
                   100                                  105                                  110  
 Glu Thr Tyr Trp Glu Val Gln Asp Ser Gly Ile Ser Pro Leu Leu Leu  
                   115                                  120                                  125  
 Leu Leu Ser Thr Ala Leu Asp Cys Ser Pro Glu Ala Glu Thr Arg Gln  
                   130                                  135                                  140  
 Ser Pro Gly Gly Arg Lys Met Leu Gln Glu Pro Thr Leu Ser Met Ser  
                   145                                  150                                  155                                  160  
 Leu Gln Ile Leu Thr Gly Phe Leu Trp Val Gln Leu Trp Asn Trp Glu  
                                   165                                  170                                  175  
 Thr Phe Leu Arg Ile Arg Thr His Ser Thr Asp Ala Ser Cys Pro  
                   180                                  185                                  190

&lt;210&gt; 871

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 871

Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val  
           1                                  5                                  10                                  15  
 Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg  
                   20                                  25                                  30  
 Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe  
           35                                  40                                  45



Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile  
50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr  
65 70 75

<210> 872

<211> 203

<212> PRT

<213> Homo sapiens

<400> 872

Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val  
1 5 10 15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln  
20 25 30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe  
35 40 45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu  
50 55 60

Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile  
65 70 75 80

Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp  
85 90 95

Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn  
100 105 110

Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro  
115 120 125

Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe  
130 135 140

Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His  
145 150 155 160

Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile  
165 170 175

Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys  
180 185 190

Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met

195

200

<210> 873  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 873  
Ser Leu Gln Pro Leu Pro Pro Arg Phe Lys Gln Phe Leu Cys Leu Ser  
1 5 10 15  
Leu Pro Ser Asn Trp Asp Tyr Arg Cys Thr Leu Pro His Leu Ala Asp  
20 25 30  
Phe Phe Tyr Val Leu Val Glu Thr Gly Phe Gln Pro Cys Cys Pro Gly  
35 40 45  
Trp Ser Gln Thr Pro Glu Leu Arg Gln Ser Thr Arg Leu Gly Leu Pro  
50 55 60  
Lys Cys  
65

<210> 874  
<211> 231  
<212> PRT  
<213> Homo sapiens

<400> 874  
Val Lys Leu Lys Glu Glu Phe Ser Leu Ser Gly Arg Ile Ile Asp Cys  
1 5 10 15  
Ala Phe Thr Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala  
20 25 30  
Val Lys Asp Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val  
35 40 45  
Arg Leu Cys Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr  
50 55 60  
Glu Val Glu Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn  
65 70 75 80  
Leu Asn Gly His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr  
85 90 95

Val Pro Ile Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu  
100 105 110  
Val Tyr Ala Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His  
115 120 125  
Asp Asp Met Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His  
130 135 140  
Val Pro Ile Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn  
145 150 155 160  
Glu Asn Phe Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu  
165 170 175  
Gly Glu Ser Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly  
180 185 190  
Ile Val Asp Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr  
195 200 205  
Ala Gln Phe Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val  
210 215 220  
Val Ser Arg Gly Asp Asp Tyr  
225 230

&lt;210&gt; 875

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 875

Cys Leu Tyr Tyr Gln Val Leu Ser Thr Ile Leu Ile Thr Asn Cys Asp  
1 5 10 15  
Lys Phe Phe Leu Phe Phe Phe Pro Leu Pro His Tyr Phe Leu Met Asn  
20 25 30  
Lys Pro Lys Ile His Gly Glu Gln Leu Gln Cys Trp Leu Ile Tyr Leu  
35 40 45  
Leu Cys Thr Gly Asn Leu Lys Arg Thr Val Asp Ser Phe Arg Ser Val  
50 55 60  
Thr Gly Ala Val Ile Ile Ala Ile His Leu Leu Val Val Leu His Leu  
65 70 75 80  
Phe His Ala Ser Phe Leu Asn Val

85

<210> 876  
<211> 330  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (174)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (178)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876  
Asn Ser Ala Arg Ala Val Gln Gly Leu Leu Glu Val Ala Lys Asp Ser  
1 5 10 15  
Ile Pro Arg Ser His Trp Lys Lys Thr Pro Val Val Leu Lys Ala Thr  
20 25 30

Ala Gly Leu Arg Leu Leu Pro Glu His Lys Ala Lys Ala Leu Leu Phe  
35 40 45

Glu Val Lys Glu Ile Phe Arg Lys Ser Pro Phe Leu Val Pro Lys Gly  
50 55 60

Ser Val Ser Ile Met Asp Gly Ser Asp Glu Gly Ile Leu Ala Trp Val  
65 70 75 80

Thr Val Asn Phe Leu Thr Gly Gln Leu His Gly His Arg Gln Glu Thr  
85 90 95

Xaa Gly Thr Leu Asp Leu Gly Gly Ala Xaa Thr Gln Ile Thr Phe Leu  
100 105 110

Pro Gln Phe Glu Lys Thr Leu Glu Gln Thr Pro Xaa Gly Tyr Leu Thr  
115 120 125

Ser Phe Glu Met Phe Asn Ser Thr Tyr Xaa Leu Tyr Thr His Ser Tyr  
130 135 140

Leu Gly Phe Gly Leu Lys Ala Ala Arg Leu Ala Thr Leu Gly Ala Leu  
145 150 155 160

Glu Thr Glu Gly Thr Asp Gly His Thr Phe Arg Ser Ala Xaa Leu Pro  
165 170 175

Arg Xaa Leu Glu Ala Glu Trp Ile Phe Gly Gly Val Lys Tyr Gln Tyr  
180 185 190

Gly Xaa Asn Gln Glu Gly Glu Val Gly Phe Glu Pro Cys Tyr Ala Glu  
195 200 205

Val Leu Arg Val Val Arg Gly Lys Leu His Gln Pro Glu Glu Val Gln  
210 215 220

Arg Gly Ser Phe Tyr Ala Phe Ser Tyr Tyr Tyr Asp Arg Ala Val Asp  
225 230 235 240

Thr Asp Met Ile Asp Tyr Glu Lys Gly Gly Ile Leu Lys Val Glu Asp  
245 250 255

Phe Glu Arg Lys Ala Arg Glu Val Cys Asp Asn Leu Glu Asn Phe Thr  
260 265 270

Ser Gly Ser Pro Phe Leu Cys Met Asp Leu Ser Tyr Ile Thr Ala Leu  
275 280 285

Leu Lys Asp Gly Phe Gly Phe Ala Asp Ser Thr Val Leu Gln Leu Thr  
290 295 300

Lys Lys Val Asn Asn Ile Glu Thr Gly Trp Ala Leu Gly Ala Thr Phe  
305 310 315 320

His Leu Leu Gln Ser Leu Gly Ile Ser His  
325 330

<210> 877

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu  
1 5 10 15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly  
20 25 30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly  
35 40 45

Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe  
50 55 60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu-Pro Gly Lys Asn  
65 70 75 80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr  
85 90 95

Leu Ala Leu Xaa Pro Cys  
100

<210> 878

<211> 135

<212> PRT

<213> Homo sapiens

<400> 878

Thr Leu Glu Ser Lys Ala Asp Thr Glu Ala Ser Arg Leu Gln Glu Tyr  
1 5 10 15

Arg Ser Gln Val Leu Ser Val Gly Leu Gly Cys Val Ser Trp Gly Lys  
                   20                                  25                                  30  
 Lys Asn Cys Glu Lys Pro Gln Ser Ser Ile Phe Thr Val Thr His Gly  
                   35                                  40                                  45  
 Arg Ser Leu Asn Cys Leu Val Asn Lys Asn Glu Ser Leu Ser Gln Arg  
                   50                                  55                                  60  
 Lys Pro Arg Gln Tyr Pro Ser Ser Thr Thr Cys Glu Asn Pro Asp Val  
                   65                                  70                                  75                                  80  
 Pro Gln Gln Arg Lys Thr Leu Gln Ala Gly Lys Met Arg Arg Phe Phe  
                                   85                                  90                                  95  
 Phe Phe Val Ser Met Met Ile Phe Ala Ala Thr Trp Leu Trp Arg Ala  
                                   100                                  105                                  110  
 Ala Asp Thr Pro Ser Tyr Ser Arg Gly Cys Phe Leu Glu Ala Asp Ser  
                   115                                  120                                  125  
 Val Cys Ser Leu Val Glu Leu  
                   130                                  135

&lt;210&gt; 879

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 879

Val Ile Cys Met Trp Gln Gly Cys Ala Val Glu Arg Pro Val Gly Arg  
           1                                  5                                  10                                  15  
 Met Thr Ser Gln Thr Pro Leu Pro Gln Ser Pro Arg Pro Arg Pro  
                   20                                  25                                  30  
 Thr Met Ser Thr Val Val Glu Leu Asn Val Gly Gly Glu Phe His Thr  
                   35                                  40                                  45  
 Thr Thr Leu Gly Thr Leu Arg Lys Phe Pro Gly Ser Lys Leu Ala Glu  
                   50                                  55                                  60  
 Met Phe Ser Ser Leu Ala Lys Ala Ser Thr Asp Ala Glu Gly Arg Phe  
                   65                                  70                                  75                                  80

Phe Ile Asp Arg Pro Ser Thr Tyr Phe Arg Pro Ile Leu Asp Tyr Leu  
                             85                            90                            95  
 Arg Thr Gly Gln Val Pro Thr Gln His Ile Pro Glu Val Tyr Arg Glu  
                             100                            105                            110  
 Ala Gln Phe Tyr Glu Ile Lys Pro Leu Val Lys Leu Leu Glu Asp Met  
                             115                            120                            125  
 Pro Gln Ile Phe Gly Glu Gln Val Ser Arg Lys Gln Phe Leu Leu Gln  
                             130                            135                            140  
 Cys Arg Ala Thr Ala Arg Thr Trp Glu Leu Met Val Arg Leu Ala Arg  
                             145                            150                            155                            160  
 Ala Glu Ala Ile Thr Ala Arg Xaa Ser Arg Cys Leu Cys Ala Trp  
                             165                            170                            175

&lt;210&gt; 880

&lt;211&gt; 397

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (311)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 880

Trp Glu Tyr Asp Met Ala Arg Glu Leu Arg Ala Leu Leu Trp Gly  
           1                            5                            10                            15  
 Arg Arg Leu Arg Pro Leu Leu Arg Ala Pro Ala Leu Ala Val Pro  
                             20                            25                            30  
 Gly Gly Lys Pro Ile Leu Cys Pro Arg Arg Thr Thr Ala Gln Leu Gly  
                             35                            40                            45  
 Pro Arg Arg Asn Pro Ala Trp Ser Leu Gln Ala Gly Arg Leu Phe Ser  
                             50                            55                            60  
 Thr Gln Thr Ala Glu Asp Lys Glu Glu Pro Leu His Ser Ile Ile Ser  
                             65                            70                            75                            80  
 Ser Thr Glu Ser Val Gln Gly Ser Thr Ser Lys His Glu Phe Gln Ala  
                             85                            90                            95  
 Glu Thr Lys Lys Leu Leu Asp Ile Val Ala Arg Ser Leu Tyr Ser Glu



100 105 110  
Lys Glu Val Phe Ile Arg Glu Leu Ile Ser Asn Ala Ser Asp Ala Leu  
115 120 125  
Glu Lys Leu Arg His Lys Leu Val Ser Asp Gly Gln Ala Leu Pro Glu  
130 135 140  
Met Glu Ile His Leu Gln Thr Asn Ala Glu Lys Gly Thr Ile Thr Ile  
145 150 155 160  
Gln Asp Thr Gly Ile Gly Met Thr Gln Glu Glu Leu Val Ser Asn Leu  
165 170 175  
Gly Thr Ile Ala Arg Ser Gly Ser Lys Ala Phe Leu Asp Ala Leu Gln  
180 185 190  
Asn Gln Ala Glu Ala Ser Ser Lys Ile Ile Gly Gln Phe Gly Val Gly  
195 200 205  
Phe Tyr Ser Ala Phe Met Val Ala Asp Arg Val Glu Val Tyr Ser Arg  
210 215 220  
Ser Ala Ala Pro Gly Ser Leu Gly Tyr Gln Trp Leu Ser Asp Gly Ser  
225 230 235 240  
Gly Val Phe Glu Ile Ala Glu Ala Ser Gly Val Arg Thr Gly Thr Lys  
245 250 255  
Ile Ile Ile His Leu Lys Ser Asp Cys Lys Glu Phe Ser Ser Glu Ala  
260 265 270  
Arg Val Arg Asp Val Val Thr Lys Tyr Ser Asn Phe Val Ser Phe Pro  
275 280 285  
Leu Tyr Leu Asn Gly Arg Arg Met Asn Thr Leu Gln Ala Ile Trp Met  
290 295 300  
Met Asp Pro Lys Asp Val Xaa Glu Trp Gln His Glu Glu Phe Tyr Arg  
305 310 315 320  
Tyr Val Ala Gln Ala His Asp Lys Pro Arg Tyr Thr Leu His Tyr Lys  
325 330 335  
Thr Asp Ala Pro Leu Asn Ile Arg Ser Ile Phe Tyr Val Pro Asp Met  
340 345 350  
Lys Pro Ser Met Phe Asp Val Ser Arg Glu Leu Gly Ser Ser Val Cys  
355 360 365  
Thr Val Gln Pro Gln Ser Pro His Pro Asp Gln Gly His Gly His Pro

370 375 380

Ala Gln Val Ala Ala Leu His Pro Arg Cys Gly Gly Gln  
385 390 395

<210> 881

<211> 187

<212> PRT

<213> Homo sapiens

<400> 881

Ile Ser Leu Phe Pro Pro Pro Gly Pro Gln Leu Cys Leu Pro Asp Lys  
1 5 10 15

Glu Gly Gln His Ser Lys Ser Arg Ser Ala Ile Tyr Leu Pro Val Arg  
20 25 30

Ser Thr Asn Ser Ser Val Arg Lys Met Ala Gly Asn Ser Ile Leu Leu  
35 40 45

Ala Ala Val Ser Ile Leu Ser Ala Cys Gln Gln Ser Tyr Phe Ala Leu  
50 55 60

Gln Val Gly Lys Ala Arg Leu Lys Tyr Lys Val Thr Pro Pro Ala Val  
65 70 75 80

Thr Gly Ser Pro Glu Phe Glu Arg Val Phe Arg Ala Gln Gln Asn Cys  
85 90 95

Val Glu Phe Tyr Pro Ile Phe Ile Ile Thr Leu Trp Met Ala Gly Trp  
100 105 110

Tyr Phe Asn Gln Val Phe Ala Thr Cys Leu Gly Leu Val Tyr Ile Tyr  
115 120 125

Gly Arg His Leu Tyr Phe Trp Gly Tyr Ser Glu Ala Ala Lys Lys Arg  
130 135 140

Ile Thr Gly Phe Arg Leu Ser Leu Gly Ile Leu Ala Leu Leu Thr Leu  
145 150 155 160

Leu Gly Ala Leu Gly Ile Ala Asn Ser Phe Leu Asp Glu Tyr Leu Asp  
165 170 175

Leu Asn Ile Ala Lys Lys Leu Arg Arg Gln Phe  
180 185

<210> 882  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 882  
 Thr Thr Asn Ile Gln Gln Gly His Phe Leu Lys Arg Glu Ser Ala Phe  
 1 5 10 15  
 Asn Glu Met Thr Met Val Asp Thr Glu Met Pro Phe Trp Pro Thr Asn  
 20 25 30  
 Phe Gly Ile Ser Ser Val Asp Leu Ser Val Met Glu Asp His Ser His  
 35 40 45  
 Ser Phe Asp Ile Lys Pro Phe Thr Thr Val Asp Phe Ser Ser Ile Ser  
 50 55 60  
 Thr Pro His Tyr Glu Asp Ile Pro Phe Thr Arg Thr Asp Pro Val Val  
 65 70 75 80  
 Ala Asp Tyr Lys Tyr Asp Leu Lys Leu Gln Glu Tyr Gln Ser Ala Xaa  
 85 90 95  
 Lys Val Glu Pro Ala Ser Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Xaa  
 100 105 110  
 Tyr Asn Lys Pro His Glu Glu Pro Ser Asn Ser Leu Met Ala Ile Glu  
 115 120 125

<210> 883  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 883  
 Ser Asn Glu Phe Ile Thr Asn Phe Xaa Gln Ala Leu Ser Gly Tyr Cys  
   1                  5                  10                  15  
 Gly Phe Met Ala Ala Xaa Leu Tyr Ala Arg Ser Ile Phe Gly Glu Asp  
                   20                  25                  30  
 Ala Leu Ala Asn Val Ser Ile Glu Lys Pro Ile His Gln Gly Pro Asp  
                   35                  40                  45  
 Ala Ala Val Thr Gly His Ile Arg Ile Arg Ala Lys Ser Gln Gly Met  
                   50                  55                  60  
 Ala Leu Ser Leu Gly Asp Lys Ile Asn Leu Ser Gln Lys Lys Thr Ser  
   65                  70                  75                  80  
 Ile

<210> 884  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 884  
 Gly Ala Asn Asn Gly Gly Ser Lys Leu Thr Gln Thr Pro Lys Leu Gln  
   1                  5                  10                  15  
 Glu Leu Met Lys Val Leu Ile Asp Trp Ile Asn Asp Val Leu Val Gly  
                   20                  25                  30  
 Glu Arg Ile Ile Val Lys Asp Leu Ala Glu Asp Leu Tyr Asp Gly Gln  
                   35                  40                  45  
 Val Leu Gln Lys Leu Phe Glu Lys Leu Glu Ser Glu Lys Leu Asn Val  
   50                  55                  60  
 Ala Glu Val Thr Gln Ser Glu Ile Ala Gln Lys Gln Lys Leu Gln Thr  
   65                  70                  75                  80

Val Leu Glu Lys Ile Asn Glu Thr Leu Lys Leu Pro Pro Arg Ser Ile  
                     85                    90                    95  
 Lys Trp Asn Val Asp Ser Val His Ala Lys Ser Leu Val Ala Ile Leu  
                     100                    105                    110  
 His Leu Leu Val Ala Leu Ser Gln Tyr Phe Arg Ala Pro Ile Arg Leu  
                     115                    120                    125  
 Pro Asp His Val Ser Ile Gln Val Val Val Val Gln Lys Arg Glu Gly  
                     130                    135                    140  
 Ile Leu Gln Ser Arg Gln Ile Gln Glu Glu Ile Thr Gly Asn Thr Glu  
                     145                    150                    155                    160  
 Ala Leu Ser Gly Arg His Glu Arg Asp Ala Phe Asp Thr Leu Phe Asp  
                     165                    170                    175  
 His Ala Pro Asp Lys Leu Asn Val Val Lys Lys Thr Leu Ile Thr Phe  
                     180                    185                    190  
 Val Asn Lys His Leu Asn Lys Leu Asn Leu Glu Val Thr Glu Leu Glu  
                     195                    200                    205  
 Thr Gln Phe Ala Asp Gly Val Tyr Leu Val Leu Leu Met Gly Leu Leu  
                     210                    215                    220  
 Glu Gly Tyr Phe Val Pro Leu His Ser Phe Phe Leu Thr Pro Asp Ser  
                     225                    230                    235                    240  
 Phe Glu Gln Lys Val Leu Asn Val Ser Phe Ala Phe Glu Leu Met Gln  
                     245                    250                    255  
 Asp Gly Gly Leu Glu Lys Pro Lys Pro Arg Pro Glu Asp Ile Val Asn  
                     260                    265                    270  
 Cys Asp Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu Phe Thr Lys  
                     275                    280                    285  
 Tyr Arg Asn Val Glu  
                     290

&lt;210&gt; 885

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys

1                    5                    10                    15  
 Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr  
                     20                    25                    30  
 Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Gly Ser Val  
                     35                    40                    45  
 Met Ser Asp Thr Gln Glu Lys Gln Ile Ser Val Val Ser Leu Lys Tyr  
                     50                    55                    60  
 Asn Phe Lys Gly His Tyr Gln Gln Gln Gly Phe Phe Tyr Thr Leu Lys  
                     65                    70                    75                    80  
 Thr Leu Cys Tyr Ile Ser Leu Pro Phe Ser Tyr Phe Gly Val Leu Leu  
                     85                    90                    95  
 Leu Leu Tyr Asn Gly Ile Asn Gly Asn Val Ile Gln Pro Leu Asn Cys  
                     100                    105                    110  
 His Tyr Tyr Ile  
                     115

&lt;210&gt; 886

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

Tyr Glu His Leu Phe Tyr Lys Phe Tyr Lys Ser Met Leu Asn Leu Arg  
                     1                    5                    10                    15  
 Lys Thr Lys Gln Val Cys Leu Tyr Ser Gln Lys Leu Cys His Leu Ser  
                     20                    25                    30  
 Gln Tyr Asp Phe Asn Met Cys Ile Asn Gly Lys Gln Gly Lys Val Phe  
                     35                    40                    45  
 Ser Asn Ile Thr Val Leu Leu Gly Asn Leu Cys Arg Val His Ile Asn  
                     50                    55                    60  
 Ala Ser Tyr Ile Thr Leu Ile Cys Phe Leu Cys Trp Pro Tyr Arg Gly  
                     65                    70                    75                    80

<210> 887  
<211> 416  
<212> PRT  
<213> Homo sapiens

<400> 887

Thr Phe Pro Pro Glu Phe Val Ile Pro Leu Ser Glu Val Thr Cys Glu  
1 5 10 15  
Thr Gly Glu Thr Val Val Leu Arg Cys Arg Val Cys Gly Arg Pro Lys  
20 25 30  
Ala Ser Ile Thr Trp Lys Gly Pro Glu His Asn Thr Leu Asn Asn Asp  
35 40 45  
Gly His Tyr Ser Ile Ser Tyr Ser Asp Leu Gly Glu Ala Thr Leu Lys  
50 55 60  
Ile Val Gly Val Thr Thr Glu Asp Asp Gly Ile Tyr Thr Cys Ile Ala  
65 70 75 80  
Val Asn Asp Met Gly Ser Ala Ser Ser Ser Ala Ser Leu Arg Val Leu  
85 90 95  
Gly Pro Gly Met Asp Gly Ile Met Val Thr Trp Lys Asp Asn Phe Asp  
100 105 110  
Ser Phe Tyr Ser Glu Val Ala Glu Leu Gly Arg Gly Arg Phe Ser Val  
115 120 125  
Val Lys Lys Cys Asp Gln Lys Gly Thr Lys Arg Ala Val Ala Thr Lys  
130 135 140  
Phe Val Asn Lys Lys Leu Met Lys Arg Asp Gln Val Thr His Glu Leu  
145 150 155 160  
Gly Ile Leu Gln Ser Leu Gln His Pro Leu Leu Val Gly Leu Leu Asp  
165 170 175  
Thr Phe Glu Thr Pro Thr Ser Tyr Ile Leu Val Leu Glu Met Ala Asp  
180 185 190  
Gln Gly Arg Leu Leu Asp Cys Val Val Arg Trp Gly Ser Leu Thr Glu  
195 200 205  
Gly Lys Ile Arg Ala His Leu Gly Glu Val Leu Glu Ala Val Arg Tyr  
210 215 220  
Leu His Asn Cys Arg Ile Ala His Leu Asp Leu Lys Pro Glu Asn Ile  
225 230 235 240

Leu Val Asp Glu Ser Leu Ala Lys Pro Thr Ile Lys Leu Ala Asp Phe  
                   245                  250                  255  
 Gly Asp Ala Val Gln Leu Asn Thr Thr Tyr Tyr Ile His Gln Leu Leu  
                   260                  265                  270  
 Gly Asn Pro Glu Phe Ala Ala Pro Glu Ile Ile Leu Gly Asn Pro Val  
                   275                  280                  285  
 Ser Leu Thr Ser Asp Thr Trp Ser Val Gly Val Leu Thr Tyr Val Leu  
                   290                  295                  300  
 Leu Ser Gly Val Ser Pro Phe Leu Asp Asp Ser Val Glu Glu Thr Cys  
                   305                  310                  315                  320  
 Leu Asn Ile Cys Arg Leu Asp Phe Ser Phe Pro Asp Asp Tyr Phe Lys  
                   325                  330                  335  
 Gly Val Ser Gln Lys Ala Lys Glu Phe Val Cys Phe Ser Cys Arg Arg  
                   340                  345                  350  
 Thr Pro Pro Ser Val Pro Arg Leu Arg Trp Pro Ser Arg Ser Ser Gly  
                   355                  360                  365  
 Cys Arg Pro Ala Thr Ala Glu Ser Thr Gly Val Leu Asp Thr Ser Arg  
                   370                  375                  380  
 Leu Thr Ser Phe Ile Glu Arg Arg Lys His Gln Asn Asp Val Arg Pro  
                   385                  390                  395                  400  
 Ile Arg Ser Ile Lys Asn Phe Leu Gln Ser Arg Leu Leu Pro Arg Val  
                   405                  410                  415

&lt;210&gt; 888

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 888

Arg Gln Arg Arg Lys Gly Gly Gln Glu Arg Gly Arg Arg Gly Lys Met  
   1                  5                  10                  15



Ala Ala Thr Lys Arg Lys Arg Arg Gly Gly Phe Ala Val Gln Ala Lys  
20 25 30

Lys Pro Lys Arg Asn Glu Ile Asp Ala Glu Pro Pro Ala Lys Arg His  
35 40 45

Ala Thr Ala Glu Glu Val Glu Glu Glu Glu Arg Asp Arg Ile Pro Gly  
50 55 60

Pro Val Cys Lys Gly Lys Trp Lys Asn Lys Glu Arg Ile Leu Ile Phe  
65 70 75 80

Ser Ser Arg Gly Ile Asn Phe Arg Thr Arg His Leu Met Gln Asp Leu  
85 90 95

Arg Met Leu Met Pro His Ser Lys Ala Asp Thr Lys Met Asp Arg Lys  
100 105 110

Asp Lys Leu Phe Val Ile Asn Glu Val Cys Glu Met Lys Asn Cys Asn  
115 120 125

Lys Cys Ile Tyr Phe Glu Ala Lys Lys Lys Gln Asp Leu Tyr Met Trp  
130 135 140

Leu Ser Asn Ser Pro His Gly Pro Ser Ala Lys Phe Leu Val Gln Asn  
145 150 155 160

Ile His Thr Leu Ala Glu Leu Lys Met Thr Gly Asn Cys Leu Lys Gly  
165 170 175

Ser Arg Pro Leu Leu Ser Phe Asp Pro Ala Phe Asp Glu Leu Pro His  
180 185 190

Tyr Ala Leu Xaa Lys Glu Leu Leu Ile Gln Ile Phe Ser Thr Pro Arg  
195 200 205

Tyr His Pro Lys Ser Gln Pro Phe Val Asp His Val Phe Thr Phe Thr  
210 215 220

Ile Leu Asp Asn Arg Ile Trp Phe Arg Asn Phe Gln Ile Ile Glu Glu  
225 230 235 240

Asp Ala Ala Leu Val Glu Ile Gly Pro Arg Phe Val Leu Asn Leu Ile  
245 250 255

Lys Ile Phe Gln Gly Ser Phe Gly Gly Pro Thr Leu Tyr Glu Asn Pro  
260 265 270

His Tyr Gln Ser Pro Asn Met His Arg Arg Val Ile Arg Ser Ile Thr  
275 280 285

Ala Ala Lys Tyr Arg Glu Lys Gln Gln Val Lys Asp Val Gln Lys Leu  
 290 295 300

Arg Lys Lys Glu Pro Lys Thr Leu Leu Pro His Asp Pro Thr Ala Asp  
 305 310 315 320

Val Phe Val Thr Pro Ala Glu Glu Lys Pro Ile Glu Ile Gln Trp Val  
 325 330 335

Lys Pro Glu Pro Lys Val Asp Leu Lys Ala Arg Lys Lys Arg Ile Tyr  
 340 345 350

Lys Arg Gln Arg Lys Met Lys Gln Arg Met Asp Ser Gly Lys Thr Lys  
 355 360 365

<210> 889

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889

Leu Ala Ser Ala Trp Cys Ser Cys Ala Arg Val Ser Ala Gly Ser Ala  
 1 5 10 15

Leu Arg Phe Pro Gly Met Glu Ser Glu Met Glu Thr Gln Ser Ala Xaa  
 20 25 30

Ala Glu Glu Gly Phe Thr Gln Val Thr Arg Lys Gly Gly Arg Arg Ala  
 35 40 45

Lys Lys Arg Gln Ala Glu Gln Leu Ser Ala Ala Gly Glu Gly Gly Asp  
 50 55 60

Ala Gly Arg Met Asp Thr Glu Glu Ala Arg Pro Ala Lys Arg Pro Val  
 65 70 75 80

Phe Pro Pro Leu Cys Gly Asp Gly Leu Leu Ser Gly Lys Glu Glu Thr  
 85 90 95

Arg Lys Ile Pro Val Pro Ala Asn Arg Tyr Thr Pro Leu Lys Glu Asn

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          100          105          110
Trp Met Lys Ile Phe Thr Pro Ile Val Glu His Leu Gly Leu Gln Ile
    115          120          125
Arg Phe Asn Leu Lys Ser Arg Asn Val Glu Ile Arg Thr Cys Lys Glu
    130          135          140
Thr Lys Asp Val Ser Ala Leu Thr Lys Ala Ala Asp Phe Val Lys Ala
    145          150          155          160
Phe Ile Leu Gly Phe Gln Val Glu Asp Ala Leu Ala Leu Ile Arg Leu
    165          170          175
Asp Asp Leu Phe Leu Glu Ser Phe Glu Ile Thr Asp Val Lys Pro Leu
    180          185          190
Lys Gly Asp His Leu Ser Arg Ala Ile Gly Arg Ile Ala Gly Lys Gly
    195          200          205
Gly Lys Thr Lys Phe Thr Ile Glu Asn Val Thr Arg Thr Arg Ile Val
    210          215          220
Leu Ala Asp Val Lys Val His Ile Leu Gly Ser Phe Gln Asn Ile Lys
    225          230          235          240
Met Ala Arg Thr Ala Ile Cys Asn Leu Ile Leu Gly Asn Pro Pro Ser
    245          250          255
Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg
    260          265          270
Phe

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<210> 890
<211> 60
<212> PRT
<213> Homo sapiens

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<400> 890
Val Thr Ser Lys Thr Gln Val Gly Leu Phe Lys Phe Leu Lys Phe Glu
  1          5          10          15
Ile Phe Tyr Leu Gln Lys Ile Val Leu Cys Phe Ile Ile Ser Gln Met
    20          25          30
Ser Val Arg Phe Leu Ser Thr Asn Asp His Ala Ser Ile Phe Phe Ser
    35          40          45

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Phe Lys Pro Pro Asn Gln Tyr Phe Ser Phe Lys Phe  
 50 55 60

<210> 891

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891

Ala Arg Gly Ala Val Thr Arg Phe Pro Pro Arg Ser Leu Gly Arg Cys  
 1 5 10 15

His Gly Phe Gly Val Gly Asp Arg Ala Val Thr Met Ala Arg Leu Ala  
 20 25 30

Leu Ser Pro Val Pro Ser His Trp Met Val Ala Leu Leu Leu Leu  
 35 40 45

Ser Ala Ala Glu Pro Val Pro Ala Ala Arg Ser Glu Asp Arg Tyr Arg  
 50 55 60

Asn Pro Lys Gly Ser Ala Cys Ser Arg Ile Trp Gln Ser Pro Arg Phe  
 65 70 75 80

Ile Ala Arg Lys Arg Gly Phe Thr Val Lys Met His Cys Tyr Met Asn  
 85 90 95

Ser Ala Ser Gly Asn Val Ser Trp Leu Trp Lys Gln Glu Met Asp Glu  
 100 105 110

Asn Pro Gln Gln Leu Lys Leu Glu Lys Gly Arg Met Glu Glu Ser Gln  
 115 120 125

Asn Glu Ser Leu Ala Thr Leu Thr Ile Gln Gly Ile Arg Phe Glu Asp  
 130 135 140

Asn Gly Ile Tyr Phe Cys Gln Gln Lys Cys Asn Asn Thr Ser Glu Val  
 145 150 155 160

Tyr Gln Gly Cys Gly Thr Glu Leu Arg Val Met Gly Phe Ser Thr Leu  
 165 170 175

Ala Gln Leu Lys Gln Arg Asn Thr Leu Lys Asp Gly Ile Ile Met Ile

180                      185                      190  
 Gln Thr Leu Leu Ile Ile Leu Phe Ile Ile Val Pro Ile Phe Leu Leu  
 195                      200                      205  
 Leu Asp Lys Asp Asp Ser Lys Ala Gly Met Glu Glu Asp His Thr Xaa  
 210                      215                      220  
 Glu Gly Leu Asp Ile Asp Gln Thr Ala Thr Tyr Glu Asp Ile Val Thr  
 225                      230                      235                      240  
 Leu Arg Thr Gly Glu Val Lys Trp Ser Val Gly Glu His Pro Gly Gln  
 245                      250                      255  
 Glu

<210> 892  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 892  
 Cys His Ser Cys Tyr Gln Ala Val Pro Leu Pro Gly Val His Ile Gly  
 1                      5                      10                      15  
 Leu Thr Gly Leu Ser Ile Phe Leu Phe Leu Ile Phe Glu Phe Tyr His  
 20                      25                      30  
 Leu Ala Leu Asn Cys Ser Thr Trp Ile Trp Gly Ser Ser Leu Cys Pro  
 35                      40                      45  
 Lys Asp Leu Leu  
 50

<210> 893  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 893  
 Gly Arg Glu Gly Arg Glu Glu Arg Glu Asp Lys Glu Ser Pro Thr Ser  
 1                      5                      10                      15  
 Phe Gln Asn Val Met Arg Ile Leu Ser Thr Tyr Gly Pro Trp His Asp  
 20                      25                      30

His Met Thr Cys Arg Ala Pro Val Ile Glu Leu Ile Phe Ile Phe Ser  
35 40 45

Leu Val  
50

<210> 894

<211> 255

<212> PRT

<213> Homo sapiens

<400> 894

Ala Pro Ser Ala Arg Asp Val Ser Arg Cys Ala His Arg Ala Arg Pro  
1 5 10 15

Gly Ala Ile Met Leu Leu Leu Pro Ser Ala Ala Asp Gly Arg Gly Thr  
20 25 30

Ala Ile Thr His Ala Leu Thr Ser Ala Ser Thr Leu Cys Gln Val Glu  
35 40 45

Pro Val Gly Arg Trp Phe Glu Ala Phe Val Lys Arg Arg Asn Arg Asn  
50 55 60

Ala Ser Ala Ser Phe Gln Glu Leu Glu Asp Lys Lys Glu Leu Ser Glu  
65 70 75 80

Glu Ser Glu Asp Glu Glu Leu Gln Leu Glu Glu Phe Pro Met Leu Lys  
85 90 95

Thr Leu Asp Pro Lys Asp Trp Lys Asn Gln Asp His Tyr Ala Val Leu  
100 105 110

Gly Leu Gly His Val Arg Tyr Lys Ala Thr Gln Arg Gln Ile Lys Ala  
115 120 125

Ala His Lys Ala Met Val Leu Lys His His Pro Asp Lys Arg Lys Ala  
130 135 140

Ala Gly Glu Pro Ile Lys Glu Gly Asp Asn Asp Tyr Phe Thr Cys Ile  
145 150 155 160

Thr Lys Ala Tyr Glu Met Leu Ser Asp Pro Val Lys Arg Arg Ala Phe  
165 170 175

Asn Ser Val Asp Pro Thr Phe Asp Asn Ser Val Pro Ser Lys Ser Glu  
180 185 190

Ala Lys Asp Asn Phe Phe Glu Val Phe Thr Pro Val Phe Glu Arg Asn

195                      200                      205  
 Ser Arg Trp Ser Asn Lys Lys Asn Val Pro Lys Leu Gly Asp Met Asn  
 210                      215                      220  
 Ser Ser Phe Glu Asp Val Asp Ile Phe Tyr Ser Phe Trp Tyr Asn Phe  
 225                      230                      235                      240  
 Asp Ser Trp Arg Glu Phe Ser Tyr Leu Asp Glu Glu Glu Lys Lys  
 245                      250                      255

<210> 895  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 895  
 Val Glu Asn Gln Asn Pro Ala Asp Pro Leu Asn Glu Glu Leu Gly Asp  
 1                      5                      10                      15  
 Glu Asp Ser Glu Lys Lys Arg Lys Gly Ala Phe Phe Ser Trp Ser Arg  
 20                      25                      30  
 Thr Arg Ser Thr Gly Arg Ser Gln Lys Lys Arg Glu His Gly Asp His  
 35                      40                      45  
 Ala Asp Asp Ala Leu His Ala Asn Gly Gly Leu Cys Arg Arg Glu Ser  
 50                      55                      60  
 Gln Gly Ser Val Ser Ser Ala Gly Ser Leu Asp Leu Ser Glu Ala Cys  
 65                      70                      75                      80  
 Arg Thr Leu Ala Pro Glu Lys Asp Lys Ala Thr Lys His Cys Cys Ile  
 85                      90                      95  
 His Leu Pro Asp Gly Thr Ser Cys Val Val Ala Val Lys Ala Gly Phe  
 100                      105                      110  
 Ser Ile Lys Asp Ile Leu Ser Gly Leu Cys Glu Arg His Gly Ile Asn  
 115                      120                      125  
 Gly Ala Ala Ala Asp Leu Phe Leu Val Gly Gly Asp Lys Pro Leu Val  
 130                      135                      140  
 Leu Ala Pro Arg Gln  
 145

&lt;210&gt; 896

&lt;211&gt; 635

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

His Glu Arg Gly Gln Arg Ala His Ser Ala Asp Ala Arg Ala Ala Gly  
1 5 10 15

Ser Thr Arg Ser Thr Ala Gly Ala Gly Leu Gly Gln Arg Leu Arg Cys  
20 25 30

Cys Trp Ile Val Val Phe Ser Gly Ile Glu Asp Thr His Gln Lys Pro  
35 40 45

Lys Met Pro Lys Pro Ile Asn Val Arg Val Thr Thr Met Asp Ala Glu  
50 55 60

Leu Glu Phe Ala Ile Gln Pro Asn Thr Thr Gly Lys Gln Leu Phe Asp  
65 70 75 80

Gln Val Val Lys Thr Ile Gly Leu Arg Glu Val Trp Tyr Phe Gly Leu  
85 90 95

His Tyr Val Asp Asn Lys Gly Phe Pro Thr Trp Leu Lys Leu Asp Lys  
100 105 110

Lys Val Ser Ala Gln Glu Val Arg Lys Glu Asn Pro Leu Gln Phe Lys  
115 120 125

Phe Arg Ala Lys Phe Tyr Pro Glu Asp Val Ala Glu Leu Ile Gln  
130 135 140

Asp Ile Thr Gln Lys Leu Phe Phe Leu Gln Val Lys Glu Gly Ile Leu  
145 150 155 160

Ser Asp Glu Ile Tyr Cys Pro Pro Glu Thr Ala Val Leu Leu Gly Ser  
165 170 175

Tyr Ala Val Gln Ala Lys Phe Gly Asp Tyr Asn Lys Glu Val His Lys  
180 185 190

Ser Gly Tyr Leu Ser Ser Glu Arg Leu Ile Pro Gln Arg Val Met Asp  
195 200 205

Gln His Lys Leu Thr Arg Asp Gln Trp Glu Asp Arg Ile Gln Val Trp  
210 215 220

His Ala Glu His Arg Gly Met Leu Lys Asp Asn Ala Met Leu Glu Tyr  
225 230 235 240



Leu Lys Ile Ala Gln Asp Leu Glu Met Tyr Gly Ile Asn Tyr Phe Glu  
245 250 255

Ile Lys Asn Lys Lys Gly Thr Asp Leu Trp Leu Gly Val Asp Ala Leu  
260 265 270

Gly Leu Asn Ile Tyr Glu Lys Asp Asp Lys Leu Thr Pro Lys Ile Gly  
275 280 285

Phe Pro Trp Ser Glu Ile Arg Asn Ile Ser Phe Asn Asp Lys Lys Phe  
290 295 300

Val Ile Lys Pro Ile Asp Lys Lys Ala Pro Asp Phe Val Phe Tyr Ala  
305 310 315 320

Pro Arg Leu Arg Ile Asn Lys Arg Ile Leu Gln Leu Cys Met Gly Asn  
325 330 335

His Glu Leu Tyr Met Arg Arg Arg Lys Pro Asp Thr Ile Glu Val Gln  
340 345 350

Gln Met Lys Ala Gln Ala Arg Glu Glu Lys His Gln Lys Gln Leu Glu  
355 360 365

Arg Gln Gln Leu Glu Thr Glu Lys Lys Arg Arg Glu Thr Val Glu Arg  
370 375 380

Glu Lys Glu Gln Met Met Arg Glu Lys Glu Glu Leu Met Leu Arg Leu  
385 390 395 400

Gln Asp Tyr Glu Glu Lys Thr Lys Lys Ala Glu Arg Glu Leu Ser Glu  
405 410 415

Gln Ile Gln Arg Ala Leu Gln Leu Glu Glu Glu Arg Lys Arg Ala Gln  
420 425 430

Glu Glu Ala Glu Arg Leu Glu Ala Asp Arg Met Ala Ala Leu Arg Ala  
435 440 445

Lys Glu Glu Leu Glu Arg Gln Ala Val Asp Gln Ile Lys Ser Gln Glu  
450 455 460

Gln Leu Ala Ala Glu Leu Ala Glu Tyr Thr Ala Lys Ile Ala Leu Leu  
465 470 475 480

Glu Glu Ala Arg Arg Arg Lys Glu Asp Glu Val Glu Glu Trp Gln His  
485 490 495

Arg Ala Lys Glu Ala Gln Asp Asp Leu Val Lys Thr Lys Glu Glu Leu  
500 505 510

His Leu Val Met Thr Ala Pro Pro Pro Pro Pro Pro Pro Val Tyr Glu  
515 520 525

Pro Val Ser Tyr His Val Gln Glu Ser Leu Gln Asp Glu Gly Ala Glu  
530 535 540

Pro Thr Gly Tyr Ser Ala Glu Leu Ser Ser Glu Gly Ile Arg Asp Asp  
545 550 555 560

Arg Asn Glu Glu Lys Arg Ile Thr Glu Ala Glu Lys Asn Glu Arg Val  
565 570 575

Gln Arg Gln Leu Leu Thr Leu Ser Ser Glu Leu Ser Gln Ala Arg Asp  
580 585 590

Glu Asn Lys Arg Thr His Asn Asp Ile Ile His Asn Glu Asn Met Arg  
595 600 605

Gln Gly Arg Asp Lys Tyr Lys Thr Leu Arg Gln Ile Arg Gln Gly Asn  
610 615 620

Thr Lys Gln Arg Ile Asp Glu Phe Glu Ala Leu  
625 630 635

<210> 897

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897  
Phe Val Phe Leu Gly Tyr Glu Glu Ile Ile Ile Xaa Leu Val Ser Ile  
1 5 10 15  
Phe Ile Asn Pro Xaa Ile Leu Tyr Leu Xaa Lys Ser Xaa Xaa Gly Gly  
20 25 30  
Gly Arg Pro Cys Xaa Asp Leu Pro Ile  
35 40

<210> 898  
<211> 128  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 898  
Ser Leu Ala Gly Arg Ser Arg Trp Met Glu Ala Asn Gln His Ser Leu  
1 5 10 15  
Asn Ile Leu Gly Gln Lys Val Ser Met His Tyr Ser Asp Pro Lys Pro  
20 25 30  
Lys Ile Asn Glu Asp Trp Leu Cys Asn Lys Cys Gly Val Gln Asn Phe  
35 40 45  
Lys Arg Arg Glu Lys Cys Phe Lys Cys Gly Val Pro Lys Ser Glu Ala  
50 55 60  
Glu Gln Lys Leu Pro Leu Gly Thr Arg Leu Asp Gln Gln Thr Leu Pro

65                      70                      75                      80  
Leu Gly Xaa Arg Glu Leu Ser Gln Gly Leu Leu Xaa Leu Pro Gln Pro  
                            85                      90                      95  
Tyr Gln Ala Gln Gly Val Leu Ala Ser Gln Ala Leu Ser Gln Gly Ser  
                            100                      105                      110  
Glu Pro Ser Ser Glu Asn Ala Asn Asp Thr Ile Ile Leu Arg Asn Leu  
                            115                      120                      125

<210> 899  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 899  
Ile Trp Gln Phe Phe Ala Glu Val Ile Met Ser Phe Phe Gln Leu Leu  
1                      5                      10                      15  
Met Lys Arg Lys Glu Leu Ile Pro Leu Val Val Phe Met Thr Val Ala  
                            20                      25                      30  
Ala Gly Gly Ala Ser Ser Phe Ala Val Tyr Ser Leu Trp Lys Thr Asp  
                            35                      40                      45  
Val Ile Leu Asp Arg Lys Lys Asn Pro Glu Pro Trp Glu Thr Val Asp  
50                      55                      60  
Pro Thr Val Pro Gln Lys Leu Ile Thr Ile Asn Gln Gln Trp Lys Pro  
65                      70                      75                      80  
Ile Glu Glu Leu Gln Asn Val Gln Arg Val Thr Lys  
                            85                      90

<210> 900  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 900  
Gly Gly Trp Phe Tyr Pro Phe Cys Leu Leu Phe Gly Thr Gln Leu Val  
1                      5                      10                      15

Phe Phe Gly Leu Leu Ser Ser Gly Ser Arg Ala Val Leu Ser Asn Thr  
20 25 30  
Val Thr Thr Cys Gly Cys Leu Lys Leu Ser Gln Leu Lys Ser His Lys  
35 40 45  
Ile Lys Asn Ser Phe Leu Ser Cys Thr Asn His Val Ser Arg Gly Val  
50 55 60  
Thr Val Cys Ser Ser Trp Leu Leu Tyr  
65 70

<210> 901  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 901  
Gly Pro Ala Leu Lys Met Gln Ala Gln Ala Pro Val Val Val Val Thr  
1 5 10 15  
Gln Pro Gly Val Gly Pro Gly Pro Ala Pro Gln Asn Ser Asn Trp Gln  
20 25 30  
Thr Gly Met Cys Asp Cys Phe Ser Asp Cys Gly Val Cys Leu Cys Gly  
35 40 45  
Thr Phe Cys Phe Pro Cys Leu Gly Cys Gln Val Ala Ala Asp Met Asn  
50 55 60  
Glu Cys Cys Leu Cys Gly Thr Ser Val Ala Met Arg Thr Leu Tyr Arg  
65 70 75 80  
Thr Arg Tyr Gly Ile Pro Gly Ser Ile Cys Asp Asp Tyr Met Ala Thr  
85 90 95  
Leu Cys Cys Pro His Cys Thr Leu Cys Gln Ile Lys Arg Asp Ile Asn  
100 105 110  
Arg Arg Arg Ala Met Arg Thr Phe  
115 120

<210> 902  
<211> 163  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 902

Xaa Glu Pro Lys Pro Ser Val Glu Pro Val Lys Ser Ile Ser Ser Met  
1 5 10 15

Glu Leu Lys Thr Glu Pro Phe Asp Asp Phe Leu Phe Pro Ala Ser Ser  
20 25 30

Arg Pro Ser Gly Ser Glu Thr Ala Arg Ser Val Pro Asp Met Asp Leu  
35 40 45

Ser Gly Ser Phe Tyr Ala Ala Asp Trp Glu Pro Leu His Ser Gly Ser  
50 55 60

Leu Gly Met Gly Pro Met Ala Gln Ser Trp Ser Pro Cys Ala Leu Arg  
65 70 75 80

Trp Ser Pro Val Leu Pro Ala Ala Leu Leu Thr Arg Leu Pro Ser Ser  
85 90 95

Ser Pro Thr Pro Arg Leu Thr Pro Ser Pro Ala Val Gln Leu Pro Thr  
100 105 110

Ala Arg Ala Ala Ala Met Ser Leu Pro Leu Thr Arg Ser Ala His  
115 120 125

Pro Arg Cys Trp Pro Cys Glu Gly Ala Gly Lys Gly Arg Gln Pro Ala  
130 135 140

Pro Thr Ser Ala Thr Ala Arg Ala Gly Ala Leu Gln Arg Gly Glu Thr  
145 150 155 160

His Leu Pro

&lt;210&gt; 903

&lt;211&gt; 478

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (451)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 903

Ala Asp Thr Lys Pro Glu Arg Gly Val Ser Ser Ala Val Phe Ala Ser  
1 5 10 15

Gly Ser Glu Xaa Arg Arg Leu Xaa Cys Val Leu Leu Ser Ser Ser Glu  
20 25 30

Thr Arg Leu Leu Ser Gly Thr Leu Leu Trp Ile Pro Arg Ala Tyr Ser  
35 40 45

Thr Arg Ser Lys Met Ala Glu Leu Asn Thr His Val Asn Val Lys Glu  
50 55 60

Lys Ile Tyr Ala Val Arg Ser Val Val Pro Asn Lys Ser Asn Asn Glu  
65 70 75 80

Ile Val Leu Val Leu Gln Gln Phe Asp Phe Asn Val Asp Lys Ala Val  
85 90 95

Gln Ala Phe Val Asp Gly Ser Ala Ile Gln Val Leu Lys Glu Trp Asn  
100 105 110

Met Thr Gly Lys Lys Lys Asn Asn Lys Arg Lys Arg Ser Lys Ser Lys  
115 120 125

Gln His Gln Gly Asn Lys Asp Ala Lys Asp Lys Val Glu Arg Pro Glu  
130 135 140

Ala Gly Pro Leu Gln Pro Gln Pro Pro Gln Ile Gln Asn Gly Pro Met  
145 150 155 160

Asn Gly Cys Glu Lys Asp Ser Ser Ser Thr Asp Ser Ala Asn Glu Lys  
165 170 175

Pro Ala Leu Ile Pro Arg Glu Lys Lys Ile Ser Ile Leu Glu Glu Pro  
180 185 190

Ser Lys Ala Leu Arg Gly Val Thr Gly Pro Asn Ile Glu Lys Ser Val  
195 200 205

Lys Asp Leu Gln Arg Cys Thr Val Ser Leu Thr Arg Tyr Arg Val Met

210 215 220  
Ile Lys Glu Glu Val Asp Ser Ser Val Lys Lys Ile Lys Ala Ala Phe  
225 230 235 240  
Ala Glu Leu His Asn Cys Ile Ile Asp Lys Glu Val Ser Leu Met Ala  
245 250 255  
Glu Met Asp Lys Val Lys Glu Glu Ala Met Glu Ile Leu Thr Ala Arg  
260 265 270  
Gln Lys Lys Ala Glu Glu Leu Lys Arg Leu Thr Asp Leu Ala Ser Gln  
275 280 285  
Met Ala Glu Met Gln Leu Ala Glu Leu Arg Ala Glu Ile Lys His Phe  
290 295 300  
Val Ser Glu Arg Lys Tyr Asp Glu Glu Leu Gly Lys Ala Ala Arg Phe  
305 310 315 320  
Ser Cys Asp Ile Glu Gln Leu Lys Ala Gln Ile Met Leu Cys Gly Glu  
325 330 335  
Ile Thr His Pro Lys Asn Asn Tyr Ser Ser Arg Thr Pro Cys Ser Ser  
340 345 350  
Leu Leu Pro Leu Leu Asn Ala His Ala Ala Thr Ser Gly Lys Gln Ser  
355 360 365  
Asn Phe Ser Arg Lys Ser Ser Thr His Asn Lys Pro Ser Glu Gly Lys  
370 375 380  
Ala Ala Asn Pro Lys Met Val Ser Ser Leu Pro Ser Thr Ala Asp Pro  
385 390 395 400  
Ser His Gln Thr Met Pro Ala Asn Lys Gln Asn Gly Ser Ser Asn Gln  
405 410 415  
Arg Arg Arg Phe Asn Pro Gln Tyr His Asn Asn Arg Leu Asn Gly Pro  
420 425 430  
Ala Lys Ser Gln Gly Ser Gly Asn Glu Ala Glu Pro Leu Gly Lys Gly  
435 440 445  
Asn Ser Xaa His Glu His Arg Arg Gln Pro His Asn Gly Phe Arg Pro  
450 455 460  
Lys Asn Lys Gly Gly Ala Lys Ile Lys Arg Leu Pro Trp Gly  
465 470 475



<210> 904  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 904  
Ala Phe His Phe Gly Ser Val Ala Lys Ala Thr Thr Thr Ser Val Gly  
1 5 10 15  
Thr Val Gly Tyr Tyr Gln Phe Met Asp Arg Leu Leu Ser Gly Met Val  
20 25 30  
Thr Ala Asn Thr Ile Val Arg Lys Pro Lys Arg Ser Leu Val Arg Val  
35 40 45  
Glu Ser Val Thr Pro Leu Pro Thr Thr Gly Cys Cys Leu Leu Ser Leu  
50 55 60  
Arg Arg Leu Arg Gln Asn Leu Leu Gln Arg Thr Arg Arg Val Val Tyr  
65 70 75 80  
Gln Arg Cys Leu Thr Thr Leu Arg  
85

<210> 905  
<211> 508  
<212> PRT  
<213> Homo sapiens

<400> 905  
Phe Arg Ile Val Leu Pro Gly Trp Gln Gln Gly Pro Ser Gly Thr Met  
1 5 10 15  
Ser Ala Leu Gly Val Thr Val Ala Leu Leu Val Trp Ala Ala Phe Leu  
20 25 30  
Leu Leu Val Ser Met Trp Arg Gln Val His Ser Ser Trp Asn Leu Pro  
35 40 45  
Pro Gly Pro Phe Pro Leu Pro Ile Ile Gly Asn Leu Phe Gln Leu Glu  
50 55 60  
Leu Lys Asn Ile Pro Lys Ser Phe Thr Arg Leu Ala Gln Arg Phe Gly  
65 70 75 80  
Pro Val Phe Thr Leu Tyr Val Gly Ser Gln Arg Met Val Val Met His  
85 90 95

Gly Tyr Lys Ala Val Lys Glu Ala Leu Leu Asp Tyr Lys Asp Glu Phe  
100 105 110

Ser Gly Arg Gly Asp Leu Pro Ala Phe His Ala His Arg Asp Arg Gly  
115 120 125

Ile Ile Phe Asn Asn Gly Pro Thr Trp Lys Asp Ile Arg Arg Phe Ser  
130 135 140

Leu Thr Thr Leu Arg Asn Tyr Gly Met Gly Lys Gln Gly Asn Glu Ser  
145 150 155 160

Arg Ile Gln Arg Glu Ala His Phe Leu Leu Glu Ala Leu Arg Lys Thr  
165 170 175

Gln Gly Gln Pro Phe Asp Pro Thr Phe Leu Ile Gly Cys Ala Pro Cys  
180 185 190

Asn Val Ile Ala Asp Ile Leu Phe Arg Lys His Phe Asp Tyr Asn Asp  
195 200 205

Glu Lys Phe Leu Arg Leu Met Tyr Leu Phe Asn Glu Asn Phe His Leu  
210 215 220

Leu Ser Thr Pro Trp Leu Gln Leu Tyr Asn Asn Phe Pro Ser Phe Leu  
225 230 235 240

His Tyr Leu Pro Gly Ser His Arg Lys Val Ile Lys Asn Val Ala Glu  
245 250 255

Val Lys Glu Tyr Val Ser Glu Arg Val Lys Glu His His Gln Ser Leu  
260 265 270

Asp Pro Asn Cys Pro Arg Asp Leu Thr Asp Cys Leu Leu Val Glu Met  
275 280 285

Glu Lys Glu Lys His Ser Ala Glu Arg Leu Tyr Thr Met Asp Gly Ile  
290 295 300

Thr Val Thr Val Ala Asp Leu Phe Phe Ala Gly Thr Glu Thr Thr Ser  
305 310 315 320

Thr Thr Leu Arg Tyr Gly Leu Leu Ile Leu Met Lys Tyr Pro Glu Ile  
325 330 335

Glu Glu Lys Leu His Glu Glu Ile Asp Arg Val Ile Gly Pro Ser Arg  
340 345 350

Ile Pro Ala Ile Lys Asp Arg Gln Glu Met Pro Tyr Met Asp Ala Val  
355 360 365

Val His Glu Ile Gln Arg Phe Ile Thr Leu Val Pro Ser Asn Leu Pro  
 370 375 380  
 His Glu Ala Thr Arg Asp Thr Ile Phe Arg Gly Tyr Leu Ile Pro Lys  
 385 390 395 400  
 Gly Thr Val Val Val Pro Thr Leu Asp Ser Val Leu Tyr Asp Asn Gln  
 405 410 415  
 Glu Phe Pro Asp Pro Glu Lys Phe Lys Pro Glu His Phe Leu Asn Glu  
 420 425 430  
 Asn Gly Lys Phe Lys Tyr Ser Asp Tyr Phe Lys Pro Phe Ser Thr Gly  
 435 440 445  
 Lys Arg Val Cys Ala Gly Glu Gly Leu Ala Arg Met Glu Leu Phe Leu  
 450 455 460  
 Leu Leu Cys Ala Ile Leu Gln His Phe Asn Leu Lys Pro Leu Val Asp  
 465 470 475 480  
 Pro Lys Asp Ile Asp Leu Ser Pro Ile His Ile Gly Phe Gly Cys Ile  
 485 490 495  
 Pro Pro Arg Tyr Lys Leu Cys Val Ile Pro Arg Ser  
 500 505

<210> 906  
 <211> 290  
 <212> PRT  
 <213> Homo sapiens

<400> 906  
 Leu Gly Pro Arg Pro Leu Ala Leu Glu Arg Gly Leu Arg Gly Thr His  
 1 5 10 15  
 Met Glu Asn Val Tyr Asp Phe Tyr Lys Pro Asn Leu Ala Ser Glu Tyr  
 20 25 30  
 Pro Ile Val Asp Gly Lys Leu Ser Ile Gln Cys Tyr Leu Arg Ala Leu  
 35 40 45  
 Asp Arg Cys Tyr Thr Ser Tyr Arg Lys Lys Ile Gln Asn Gln Trp Lys  
 50 55 60  
 Gln Ala Gly Ser Asp Arg Pro Phe Thr Leu Asp Asp Leu Gln Tyr Met  
 65 70 75 80  
 Ile Phe His Thr Pro Phe Cys Lys Met Val Gln Lys Ser Leu Ala Arg

	85	90	95
Leu Met Phe Asn Asp Phe Leu Ser Ala Ser Ser Asp Thr Gln Thr Ser			
	100	105	110
Leu Tyr Lys Gly Leu Glu Ala Phe Gly Gly Leu Lys Leu Glu Asp Thr			
	115	120	125
Tyr Thr Asn Lys Asp Leu Asp Lys Ala Leu Leu Lys Ala Ser Gln Asp			
	130	135	140
Met Phe Asp Lys Lys Thr Lys Ala Ser Leu Tyr Leu Ser Thr His Asn			
	145	150	155
Gly Asn Met Tyr Thr Ser Ser Leu Tyr Gly Cys Leu Ala Ser Leu Leu			
	165	170	175
Ser His His Ser Ala Gln Glu Leu Ala Gly Ser Arg Ile Gly Ala Phe			
	180	185	190
Ser Tyr Gly Ser Gly Leu Ala Ala Ser Phe Phe Ser Phe Arg Val Ser			
	195	200	205
Gln Asp Ala Ala Pro Gly Ser Pro Leu Asp Lys Leu Val Ser Ser Thr			
	210	215	220
Ser Asp Leu Pro Lys Arg Leu Ala Ser Arg Lys Cys Val Ser Pro Glu			
	225	230	235
Glu Phe Thr Glu Ile Met Asn Gln Arg Glu Gln Phe Tyr His Lys Val			
	245	250	255
Asn Phe Ser Pro Pro Gly Asp Thr Asn Ser Leu Phe Pro Gly Thr Trp			
	260	265	270
Tyr Leu Glu Arg Val Asp Glu Gln His Arg Arg Lys Tyr Ala Arg Arg			
	275	280	285
Pro Val			
	290		

&lt;210&gt; 907

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907

Leu	Val	Pro	Asn	Ser	Ala	Arg	Val	Gly	Thr	Arg	Ser	Lys	Gly	Val	Cys
1				5					10					15	
Val	His	Gly	Asn	Ala	Glu	Tyr	Gln	Pro	Gly	Ser	Pro	Val	Tyr	Ser	Ser
			20					25					30		
Lys	Cys	Gln	Asp	Cys	Val	Cys	Thr	Asp	Lys	Val	Asp	Asn	Asn	Thr	Leu
		35					40					45			
Leu	Asn	Val	Ile	Ala	Cys	Thr	His	Val	Pro	Cys	Asn	Thr	Ser	Cys	Ser
	50					55						60			
Pro	Gly	Phe	Glu	Leu	Met	Glu	Ala	Pro	Gly	Glu	Cys	Cys	Lys	Lys	Cys
65					70					75					80
Glu	Gln	Thr	His	Cys	Ile	Ile	Lys	Arg	Pro	Asp	Asn	Gln	His	Val	Ile
			85					90						95	
Leu	Lys	Pro	Gly	Asp	Phe	Lys	Ser	Asp	Pro	Lys	Asn	Asn	Cys	Thr	Phe
		100						105					110		
Phe	Ser	Cys	Val	Lys	Ile	His	Asn	Gln	Leu	Ile	Ser	Ser	Val	Ser	Asn
	115						120						125		
Ile	Thr	Cys	Pro	Asn	Phe	Asp	Ala	Ser	Ile	Cys	Ile	Pro	Gly	Ser	Ile
	130					135						140			
Thr	Phe	Met	Pro	Asn	Gly	Cys	Cys	Lys	Thr	Cys	Thr	Pro	Arg	Asn	Glu
145					150					155					160
Thr	Arg	Val	Pro	Cys	Ser	Thr	Val	Pro	Val	Thr	Thr	Glu	Val	Ser	Tyr
			165						170						175

Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys  
180 185 190  
Gly Thr Phe Val Met Xaa Ser Ala Lys Ala Arg Pro Trp Thr Thr Ala  
195 200 205  
Cys Ser Cys Cys Lys Glu Xaa Lys Thr Ser Gln Arg Glu Xaa Val Leu  
210 215 220  
Thr Ala Gln Trp Arg Ser Leu Thr His Thr Tyr Thr Thr Ser Arg Leu  
225 230 235 240  
Pro Xaa

<210> 908  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 908  
Leu Gly Leu Ala Pro Ala Leu Gly Pro Ala Ser Arg Arg Ser Arg Glu  
1 5 10 15  
Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val Leu Val  
20 25 30  
Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys Asn Lys  
35 40 45  
Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu Asn His  
50 55 60  
Met Leu Ser Asp Thr Gly Asn Arg Lys Ala Ala Asp Lys Leu Ile Gln  
65 70 75 80  
Asn Leu Asp Ala Asn His Asp Gly Arg Ile Ser Phe Asp Glu Tyr Trp  
85 90 95  
Thr Leu Ile Gly Gly Ile Thr Gly Pro Ile Ala Lys Leu Ile His Glu  
100 105 110  
Gln Glu Gln Gln Ser Ser Ser  
115

<210> 909  
<211> 171

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (162)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 909

Leu Ile Ala Cys His Phe Gln Val His Phe Leu Phe Ile Phe Met Phe  
1 5 10 15

Met Val Asp Cys Thr Phe Pro Ser Pro Pro Ser Gly Met Gly Gly Gly  
20 25 30

Gly Glu Gly Gly Pro Trp Ala Leu Gln Ser His Leu Ser Arg Glu Ile  
35 40 45

Pro Phe Gly Thr Gly Gly Arg Lys Ala Ala Arg Arg Gln Gln Pro Trp  
50 55 60

Leu Leu Ser Phe Gly Arg Leu Gly Lys Gly Leu Pro Pro Ala Leu Gly  
65 70 75 80

Phe Gln Gly Leu Thr Gly Gly Val Glu Arg Glu Gly Gly Thr Ser Ile  
85 90 95

Thr Leu Lys Val Glu Ser Ser Tyr Phe Leu Arg Cys Glu Gly Phe Phe  
100 105 110

Ile Ser Leu Phe Ser Glu Cys Gln Gly Ser Glu Val Pro Leu Thr Val  
115 120 125

Asn Leu Trp Trp Ala Gly Ala Gly Gly Glu Gly Gly Gly Leu Ala Pro  
130 135 140

Ser Leu Pro Ala Phe Cys Cys Pro Cys Leu Thr Met Pro Ala Asn Trp  
145 150 155 160

Arg Xaa His Gly Cys Thr Ser Ile Pro Pro Glu  
165 170

&lt;210&gt; 910

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 910

Gly Ser Pro Thr Glu Thr Leu Leu Arg Leu Leu Leu Pro Leu Asp Ser  
1 5 10 15

Gln Val Arg Pro Ser Ser Gln Arg Ser Ala Xaa Ala Val Gly Arg Pro  
20 25 30

Arg Arg Gly Arg Ser Glu Gly Leu Thr Lys Pro Ser Asn Arg  
35 40 45

<210> 911

<211> 1242

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (1013)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (1034)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 911

Ala Pro His Leu Thr Leu Arg Pro Cys Gly Cys Cys Ser Gly Ala Gly  
1 5 10 15

Leu Leu Pro Gly Gln Gly Pro Gly Ile Met Tyr Ile Lys Gln Val Ile  
20 25 30

Ile Gln Gly Phe Arg Ser Tyr Arg Asp Gln Thr Ile Val Asp Pro Phe  
35 40 45

Ser Ser Lys His Asn Val Ile Val Gly Arg Asn Gly Ser Gly Lys Ser  
50 55 60

Asn Phe Phe Tyr Ala Ile Gln Phe Val Leu Ser Asp Glu Phe Ser His  
65 70 75 80



Leu Arg Pro Glu Gln Arg Leu Ala Leu Leu His Glu Gly Thr Gly Pro  
85 90 95

Arg Val Ile Ser Ala Phe Val Glu Ile Ile Phe Asp Asn Ser Asp Asn  
100 105 110

Arg Leu Pro Ile Asp Lys Glu Glu Val Ser Leu Arg Arg Val Ile Gly  
115 120 125

Ala Lys Lys Asp Gln Tyr Phe Leu Asp Lys Lys Met Val Thr Lys Asn  
130 135 140

Asp Val Met Asn Leu Leu Glu Ser Ala Gly Phe Ser Arg Ser Asn Pro  
145 150 155 160

Tyr Tyr Ile Val Lys Gln Gly Lys Ile Asn Gln Met Ala Thr Ala Pro  
165 170 175

Asp Ser Gln Arg Leu Lys Leu Leu Arg Glu Val Ala Gly Thr Arg Val  
180 185 190

Tyr Asp Glu Arg Lys Glu Glu Ser Ile Ser Leu Met Lys Glu Thr Glu  
195 200 205

Gly Lys Arg Glu Lys Ile Asn Glu Leu Leu Lys Tyr Ile Glu Glu Xaa  
210 215 220

Leu His Thr Leu Glu Glu Glu Lys Glu Glu Leu Ala Gln Tyr Gln Lys  
225 230 235 240

Trp Asp Lys Met Arg Arg Ala Leu Glu Tyr Thr Ile Tyr Asn Gln Glu  
245 250 255

Leu Asn Glu Thr Arg Ala Lys Leu Asp Glu Leu Ser Ala Lys Arg Glu  
260 265 270

Thr Ser Gly Glu Lys Ser Arg Gln Leu Arg Asp Ala Gln Gln Asp Ala  
275 280 285

Arg Asp Lys Met Glu Asp Ile Glu Arg Gln Val Arg Glu Leu Lys Thr  
290 295 300

Lys Ile Ser Ala Met Lys Glu Glu Lys Glu Gln Leu Ser Ala Glu Arg  
305 310 315 320

Gln Glu Gln Ile Lys Gln Arg Thr Lys Leu Glu Leu Lys Ala Lys Asp  
325 330 335

Leu Gln Asp Glu Leu Ala Gly Asn Ser Glu Gln Arg Lys Arg Leu Leu  
340 345 350

Lys Glu Arg Gln Lys Leu Leu Glu Lys Ile Glu Glu Lys Gln Lys Glu  
 355 360 365  
 Leu Ala Glu Thr Glu Pro Lys Phe Asn Ser Val Lys Glu Lys Glu Glu  
 370 375 380  
 Arg Gly Ile Ala Arg Leu Ala Gln Ala Thr Gln Glu Arg Thr Asp Leu  
 385 390 395 400  
 Tyr Ala Lys Gln Gly Arg Gly Ser Gln Phe Thr Ser Lys Glu Glu Arg  
 405 410 415  
 Asp Lys Trp Ile Lys Lys Glu Leu Lys Ser Leu Asp Gln Ala Ile Asn  
 420 425 430  
 Asp Lys Lys Arg Gln Ile Ala Ala Ile His Lys Asp Leu Glu Asp Thr  
 435 440 445  
 Glu Ala Asn Lys Glu Lys Asn Leu Glu Gln Tyr Asn Lys Leu Asp Gln  
 450 455 460  
 Asp Leu Asn Glu Val Lys Ala Arg Val Glu Glu Leu Asp Arg Lys Tyr  
 465 470 475 480  
 Tyr Glu Val Lys Asn Lys Lys Asp Glu Leu Gln Ser Glu Arg Asn Tyr  
 485 490 495  
 Leu Trp Arg Glu Glu Asn Ala Glu Gln Gln Ala Leu Ala Ala Lys Arg  
 500 505 510  
 Glu Asp Leu Glu Lys Lys Gln Gln Leu Leu Arg Ala Ala Thr Gly Lys  
 515 520 525  
 Ala Ile Leu Asn Gly Ile Asp Ser Ile Asn Lys Val Leu Asp His Phe  
 530 535 540  
 Arg Arg Lys Gly Ile Asn Gln His Val Gln Asn Gly Tyr His Gly Ile  
 545 550 555 560  
 Val Met Asn Asn Phe Glu Cys Glu Pro Ala Phe Tyr Thr Cys Val Glu  
 565 570 575  
 Val Thr Ala Gly Asn Arg Leu Phe Tyr His Ile Val Asp Ser Asp Glu  
 580 585 590  
 Val Ser Thr Lys Ile Leu Met Glu Phe Asn Lys Met Asn Leu Pro Gly  
 595 600 605  
 Glu Val Thr Phe Leu Pro Leu Asn Lys Leu Asp Val Arg Asp Thr Ala  
 610 615 620

Tyr Pro Glu Thr Asn Asp Ala Ile Pro Met Ile Ser Lys Leu Arg Tyr  
625 630 635 640

Asn Pro Arg Phe Asp Lys Ala Phe Lys His Val Phe Gly Lys Thr Leu  
645 650 655

Ile Cys Arg Ser Met Glu Val Ser Thr Gln Leu Ala Arg Ala Phe Thr  
660 665 670

Met Asp Cys Ile Thr Leu Glu Gly Asp Gln Val Ser His Arg Gly Ala  
675 680 685

Leu Thr Gly Gly Tyr Tyr Asp Thr Arg Lys Ser Arg Leu Glu Leu Gln  
690 695 700

Lys Asp Val Arg Lys Ala Glu Glu Glu Leu Gly Glu Leu Glu Ala Lys  
705 710 715 720

Leu Asn Glu Asn Leu Arg Arg Asn Ile Glu Arg Ile Asn Asn Glu Ile  
725 730 735

Asp Gln Leu Met Asn Gln Met Gln Gln Ile Glu Thr Gln Gln Arg Lys  
740 745 750

Phe Lys Ala Ser Arg Asp Ser Ile Leu Ser Glu Met Lys Met Leu Lys  
755 760 765

Glu Lys Arg Gln Gln Ser Glu Lys Thr Phe Met Pro Lys Gln Arg Ser  
770 775 780

Leu Gln Ser Leu Glu Ala Ser Leu His Ala Met Glu Ser Thr Arg Glu  
785 790 795 800

Ser Leu Lys Ala Glu Leu Gly Thr Asp Leu Leu Ser Gln Leu Ser Leu  
805 810 815

Glu Asp Gln Lys Arg Val Asp Ala Leu Asn Asp Glu Ile Arg Gln Leu  
820 825 830

Gln Gln Glu Asn Arg Gln Leu Leu Asn Glu Arg Ile Lys Leu Glu Gly  
835 840 845

Ile Ile Thr Arg Val Glu Thr Tyr Leu Asn Glu Asn Leu Arg Lys Arg  
850 855 860

Leu Asp Gln Val Glu Gln Glu Leu Asn Glu Leu Arg Glu Thr Glu Gly  
865 870 875 880

Gly Thr Val Leu Thr Ala Thr Thr Ser Glu Leu Glu Ala Ile Asn Lys  
885 890 895

Arg Val Lys Asp Thr Met Ala Arg Ser Glu Asp Leu Asp Asn Ser Ile  
 900 905 910  
 Asp Lys Thr Glu Ala Gly Ile Lys Glu Leu Gln Lys Ser Met Glu Arg  
 915 920 925  
 Trp Lys Asn Met Glu Lys Glu His Met Asp Ala Ile Asn His Asp Thr  
 930 935 940  
 Lys Glu Leu Glu Lys Met Thr Asn Arg Gln Gly Met Leu Leu Lys Lys  
 945 950 955 960  
 Lys Glu Glu Cys Met Lys Lys Ile Arg Glu Leu Gly Ser Leu Pro Gln  
 965 970 975  
 Glu Ala Phe Glu Lys Tyr Gln Thr Leu Ser Leu Lys Gln Leu Phe Arg  
 980 985 990  
 Lys Leu Glu Gln Cys Asn Thr Glu Leu Lys Lys Tyr Ser His Val Asn  
 995 1000 1005  
 Lys Lys Ala Leu Xaa Gln Phe Val Asn Phe Ser Glu Gln Lys Glu Lys  
 1010 1015 1020  
 Leu Ile Lys Arg Gln Glu Glu Leu Asp Xaa Gly Tyr Lys Ser Ile Met  
 1025 1030 1035 1040  
 Glu Leu Met Asn Val Leu Glu Leu Arg Lys Tyr Glu Ala Ile Gln Leu  
 1045 1050 1055  
 Thr Phe Lys Gln Val Ser Lys Asn Phe Ser Glu Val Phe Gln Lys Leu  
 1060 1065 1070  
 Val Pro Gly Gly Lys Ala Thr Leu Val Met Lys Lys Gly Asp Val Glu  
 1075 1080 1085  
 Gly Ser Gln Ser Gln Asp Glu Gly Glu Gly Ser Gly Glu Ser Glu Arg  
 1090 1095 1100  
 Gly Ser Gly Ser Gln Ser Ser Val Pro Ser Val Asp Gln Phe Thr Gly  
 1105 1110 1115 1120  
 Val Gly Ile Arg Val Ser Phe Thr Gly Lys Gln Gly Glu Met Arg Glu  
 1125 1130 1135  
 Met Gln Gln Leu Ser Gly Gly Gln Lys Ser Leu Val Ala Leu Ala Leu  
 1140 1145 1150  
 Ile Phe Ala Ile Gln Lys Cys Asp Pro Ala Pro Phe Tyr Leu Phe Asp  
 1155 1160 1165

Glu Ile Asp Gln Ala Leu Asp Ala Gln His Arg Lys Ala Val Ser Asp  
 1170 1175 1180  
 Met Ile Met Glu Leu Ala Val His Ala Gln Phe Ile Thr Thr Thr Phe  
 185 1190 1195 1200  
 Arg Pro Glu Leu Leu Glu Ser Ala Asp Lys Phe Tyr Gly Val Lys Phe  
 1205 1210 1215  
 Arg Asn Lys Val Ser His Ile Asp Val Ile Thr Ala Glu Met Ala Lys  
 1220 1225 1230  
 Asp Phe Val Glu Asp Asp Thr Thr His Gly  
 1235 1240

<210> 912  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (143)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 912  
 Glu Glu Lys Thr Glu Pro Pro Leu Ser Phe Gly Arg Gly Trp Gln Thr  
 1 5 10 15  
 Val Lys Glu Met Ser Val Leu Arg His Val Gly Ile Gly Ser Asp Ala  
 20 25 30  
 Pro Pro Met Glu Arg Phe Val Asn Thr Lys Thr Trp Lys Val Arg Gly  
 35 40 45  
 Leu Ser Thr Lys Arg His Gly Arg Leu Gly Leu Ser Thr Gln Arg His  
 50 55 60  
 Gly Arg Leu Glu Val Cys Gln His Lys Asp Thr Gly Arg Met Gly Cys

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<400> 913
Arg Thr Arg Leu Glu Ala Arg Arg Gln Gly Trp Ala Ala Ala Ala
  1           5           10           15

Ala Val Met Glu Arg Gln Glu Glu Ser Leu Ser Ala Arg Pro Ala Leu
      20           25           30

Glu Thr Glu Gly Leu Arg Phe Leu His Thr Thr Val Gly Ser Leu Leu
      35           40           45

Ala Thr Tyr Gly Trp Tyr Ile Val Phe Ser Cys Ile Leu Leu Tyr Val
      50           55           60

Val Phe Gln Lys Leu Ser Ala Arg Leu Arg Ala Leu Arg Gln Arg Gln
      65           70           75           80

Leu Asp Arg Ala Ala Ala Ala Val Glu Pro Asp Val Val Val Lys Arg
      85           90           95

Gln Glu Ala Leu Ala Ala Ala Arg Leu Lys Met Gln Glu Glu Leu Asn
      100          105          110

Ala Gln Val Glu Lys His Lys Glu Lys Leu Lys Gln Leu Glu Glu Glu
      115          120          125

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Lys Arg Arg Gln Lys Ile Glu Met Trp Asp Ser Met Gln Glu Gly Lys  
 130 135 140  
 Ser Tyr Lys Gly Asn Ala Lys Lys Pro Gln Glu Glu Asp Ser Pro Gly  
 145 150 155 160  
 Pro Ser Thr Ser Ser Val Leu Lys Arg Lys Ser Asp Arg Lys Pro Leu  
 165 170 175  
 Arg Gly Gly Gly Tyr Asn Pro Leu Ser Gly Glu Gly Gly Gly Ala Cys  
 180 185 190  
 Ser Trp Arg Pro Gly Arg Arg Gly Pro Ser Ser Gly Gly  
 195 200 205

&lt;210&gt; 914

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

Ile Leu Gln Val Pro Val Arg Asn Ser Arg Val Tyr Pro Arg Val Arg  
 1 5 10 15  
 Val Arg Asn Val Pro Trp Glu Phe Gly Asp Val Ile Pro Asp Tyr Val  
 20 25 30  
 Leu Gly Gln Ser Thr Cys Ala Leu Phe Leu Ser Leu Arg Tyr His Asn  
 35 40 45  
 Leu His Pro Asp Tyr Ile His Gly Arg Leu Gln Ser Leu Gly Lys Asn  
 50 55 60  
 Phe Ala Leu Arg Val Leu Leu Val Gln Val Asp Val Lys Asp Pro Gln  
 65 70 75 80  
 Gln Ala Leu Lys Glu Leu Ala Lys Met Cys Ile Leu Ala Asp Cys Thr  
 85 90 95  
 Leu Ile Leu Ala Trp Ser Pro Glu Glu Ala Gly Arg Tyr Leu Glu Thr  
 100 105 110  
 Tyr Lys Ala Tyr Glu Gln Lys Pro Ala Asp Leu Leu Met Glu Lys Leu  
 115 120 125  
 Glu Gln Asp Phe Val Ser Arg Val Thr Glu Cys Leu Thr Thr Val Lys  
 130 135 140

Ser Val Asn Lys Thr Asp Ser Gln Thr Leu Leu Thr Thr Phe Gly Ser  
 145 150 155 160

Leu Glu Gln Leu Ile Ala Ala Ser Arg Glu Asp Leu Ala Leu Cys Pro  
 165 170 175

Gly Leu Gly Pro Gln Lys Ala Arg Arg Leu Phe Asp Val Leu His Glu  
 180 185 190

Pro Phe Leu Lys Val Pro  
 195

<210> 915

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915

Gly Thr Val Asp Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg Cys  
 1 5 10 15

Ala His Pro Leu Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe Tyr Ile  
 20 25 30

Ser Leu Val Ile Phe Tyr Gly Leu Ile Cys Met Tyr Thr Leu Trp Trp  
 35 40 45

Met Leu Arg Arg Ser Leu Lys Lys Tyr Ser Phe Glu Ser Ile Arg Glu  
 50 55 60

Glu Ser Ser Tyr Ser Xaa Ile Pro Asp Val Lys Asn Asp Phe Ala Phe  
 65 70 75 80

Met Leu His Leu Ile Asp Gln Tyr Asp Pro Leu Tyr Ser Lys Arg Phe  
 85 90 95

Ala Val Phe Leu Ser Glu Val Ser Glu Asn Lys Leu Arg Gln Leu Asn  
 100 105 110

Leu Asn Asn Glu Trp Thr Leu Asp Lys Leu Arg Gln Arg Leu Thr Lys  
 115 120 125

Asn Ala Gln Asp Lys Leu Glu Leu His Leu Phe Met Leu Ser Gly Ile  
 130 135 140



Pro Asp Thr Val Phe Asp Leu Val Glu Leu Glu Val Leu Lys Leu Glu  
 145 150 155 160  
 Leu Ile Pro Asp Val Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly  
 165 170 175  
 Leu Lys Glu Leu Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro  
 180 185 190  
 Ala Leu Ala Phe Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe  
 195 200 205  
 Thr Asp Ile Lys Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu  
 210 215 220  
 Glu Glu Leu His Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr  
 225 230 235 240  
 Ile Val Ile Asp Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu Arg  
 245 250 255  
 Leu Lys Ser Asn Leu Ser Lys Leu Pro Gln Val Val Thr Asp Val Gly  
 260 265 270  
 Val His Leu Gln Lys Leu Ser Ile Asn Asn Glu Gly Thr Lys Leu Ile  
 275 280 285  
 Val Leu Asn Ser Leu Lys Lys Met Ala Lys Pro Asp  
 290 295 300

&lt;210&gt; 916

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 916

Gln Val Ala Met Gly Ser Leu Ser Gly Leu Arg Leu Ala Ala Gly Ser  
 1 5 10 15  
 Cys Phe Arg Leu Cys Glu Arg Asp Val Ser Ser Ser Leu Arg Leu Thr  
 20 25 30  
 Arg Ser Ser Asp Leu Lys Arg Ile Asn Gly Phe Cys Thr Lys Pro Gln  
 35 40 45  
 Glu Ser Pro Gly Ala Pro Ser Arg Thr Tyr Asn Arg Val Pro Leu His  
 50 55 60

Lys Pro Thr Asp Trp Gln Lys Lys Ile Leu Ile Trp Ser Gly Arg Phe  
65 70 75 80  
Lys Lys Glu Asp Glu Ile Pro Glu Thr Val Ser Leu Glu Met Leu Asp  
85 90 95  
Ala Ala Lys Asn Lys Met Arg Val Lys Ile Ser Tyr Leu Met Ile Ala  
100 105 110  
Leu Thr Val Val Gly Cys Ile Phe Met Val Ile Glu Gly Lys Lys Ala  
115 120 125  
Ala Gln Arg His Glu Thr Leu Thr Ser Leu Asn Leu Glu Lys Lys Ala  
130 135 140  
Arg Leu Lys Glu Glu Ala Ala Met Lys Ala Lys Thr Glu  
145 150 155

<210> 917  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 917  
Ile Lys Val Met Asn Lys Thr Phe His Pro Leu Lys His Phe Pro Val  
1 5 10 15  
Leu Arg Phe Leu Phe Val Phe Val Val Ser Ser Pro Cys Tyr Pro Phe  
20 25 30  
Cys Pro Phe Ser Leu Thr Met Val Ile Trp Ser Leu Gly Ser Tyr Gln  
35 40 45  
Ser Pro Arg Asp Ile Leu Gln Ser Leu Ser Pro Phe Trp Val Asp Phe  
50 55 60  
Ile Leu Phe Tyr Phe Val Phe Phe Lys Lys Ile Thr Phe  
65 70 75

<210> 918  
<211> 187  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 918

Thr Phe Ala Ala Ala Leu Ser Ser Ser Xaa Gly Cys Pro Ser Arg Ala  
1 5 10 15

Gln Val Thr Thr Asp Xaa Leu Pro Ala Cys Arg Ser Cys Ala Cys Arg  
20 25 30

Pro Ala Gly Leu Cys Thr Leu Gln Thr Thr Leu Leu Trp Phe Leu Gly  
35 40 45

Arg Ala Gln Gln Tyr Leu Ala Ala Trp Asp Pro Ala Ser Phe Leu Leu  
50 55 60

Leu Ile Gln Lys Asp Leu Pro Pro Leu Leu His Glu Ala Glu Ala Leu  
65 70 75 80

Tyr Ser Leu Ala Ser Glu Glu Ser Leu Ala Leu Glu Val Glu Gln Gln  
85 90 95

Leu Gly Leu Glu Ile Gln Lys Leu Thr Ala Gln Ile Gln Leu Leu Pro  
100 105 110

Glu Glu Ser Leu Ser Val Phe Ser Gln Glu Cys His Lys Gln Ala Met  
115 120 125

Gln Gly Phe Lys Leu Tyr Met Pro Arg Gly Arg Tyr Trp Arg Leu Arg  
130 135 140

Leu Cys Pro Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu Val  
145 150 155 160

Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu His  
165 170 175

Leu Lys Pro Arg Pro Leu Pro Leu Val Arg Leu  
180 185

<210> 919

<211> 260

<212> PRT

<213> Homo sapiens

&lt;400&gt; 919

Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile  
1 5 10 15

Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met  
20 25 30

Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu  
35 40 45

His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val  
50 55 60

Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn  
65 70 75 80

Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu  
85 90 95

Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala  
100 105 110

Val Gly Cys Ile Leu Ala Glu Leu Leu Arg Val Pro Phe Leu Pro  
115 120 125

Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly  
130 135 140

Thr Pro Thr Glu Glu Gln Trp Pro Asp Met Cys Ser Leu Pro Asp Tyr  
145 150 155 160

Val Thr Phe Lys Ser Phe Pro Gly Ile Pro Leu His His Ile Phe Ser  
165 170 175

Ala Ala Gly Asp Asp Leu Leu Asp Leu Ile Gln Gly Leu Phe Leu Phe  
180 185 190

Asn Pro Cys Ala Arg Ile Thr Ala Thr Gln Ala Leu Lys Met Lys Tyr  
195 200 205

Phe Ser Asn Ala Pro Gly Pro Thr Pro Gly Cys Gln Leu Pro Arg Pro  
210 215 220

Asn Cys Pro Val Glu Thr Leu Lys Glu Gln Ser Asn Pro Ala Leu Ala  
225 230 235 240

Ile Lys Arg Lys Arg Thr Glu Ala Leu Glu Gln Gly Gly Leu Pro Lys  
245 250 255

Lys Leu Ile Phe  
260

<210> 920  
<211> 345  
<212> PRT  
<213> Homo sapiens

<400> 920  
Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp  
1 5 10 15  
Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys  
20 25 30  
Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr  
35 40 45  
Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys  
50 55 60  
Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp  
65 70 75 80  
Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys  
85 90 95  
Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp  
100 105 110  
Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp  
115 120 125  
Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys  
130 135 140  
Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp  
145 150 155 160  
Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly  
165 170 175  
Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu  
180 185 190  
Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala  
195 200 205  
Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val  
210 215 220

Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu  
225 230 235 240  
Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu  
245 250 255  
Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly  
260 265 270  
Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys  
275 280 285  
Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln  
290 295 300  
Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg  
305 310 315 320  
Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys  
325 330 335  
Arg Ala Gln Leu Arg Ala Lys Ala Asn  
340 345

<210> 921  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 921  
Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala Glu Asp Ser Phe Thr  
1 5 10 15  
Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr Tyr Leu Lys Glu Cys  
20 25 30  
Gln Gly

<210> 922  
<211> 215  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 922

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Trp Ile Pro Ala Gln Asp Ser His Val Pro Pro Gly Leu Ser Met Ala
 1             5             10             15

Leu Ser Trp Val Leu Thr Val Leu Ser Leu Leu Pro Leu Leu Glu Ala
      20             25             30

Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro Ile Thr Asn Ala
      35             40             45

Thr Leu Asp Xaa Ile Thr Gly Lys Trp Phe Tyr Ile Ala Ser Ala Phe
 50             55             60

Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln Glu Ile Gln Ala Thr Phe
 65             70             75             80

Phe Tyr Phe Thr Pro Asn Lys Thr Glu Asp Thr Ile Phe Leu Arg Glu
      85             90             95

Tyr Gln Thr Arg Gln Asp Gln Cys Ile Tyr Asn Thr Thr Tyr Leu Asn
      100             105             110

Val Gln Arg Glu Asn Gly Thr Ile Ser Arg Tyr Val Gly Gly Gln Glu
      115             120             125

His Phe Ala His Leu Leu Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu
      130             135             140

Ala Phe Asp Val Asn Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala
      145             150             155             160

Asp Lys Pro Glu Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala
      165             170             175

Leu Asp Cys Leu Arg Ile Pro Lys Ser Asp Val Val Tyr Thr Asp Trp
      180             185             190

Lys Lys Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg
      195             200             205

Lys Gln Glu Glu Gly Glu Ser
      210             215

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<210> 923

<211> 358

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 923  
Cys Ala Met Pro Ile Gly Cys Pro Xaa Ser Ser Leu Gly Asn Ser Ala  
1 5 10 15  
Arg Leu Xaa Gln Lys Gln Gln Gln Xaa Ala Gly Arg Glu Thr Ser Thr  
20 25 30  
Cys Ser Leu Arg Ile Ile Ser Ala Pro Thr Met Ala Thr Phe Val Glu  
35 40 45  
Leu Ser Thr Lys Ala Lys Met Pro Ile Val Gly Leu Gly Thr Trp Lys  
50 55 60  
Ser Pro Leu Gly Lys Val Lys Glu Ala Val Lys Val Ala Ile Asp Ala  
65 70 75 80  
Gly Tyr Arg His Ile Asp Cys Ala Tyr Val Tyr Gln Asn Glu His Glu  
85 90 95  
Val Gly Glu Ala Ile Gln Glu Lys Ile Gln Glu Lys Ala Val Lys Arg  
100 105 110  
Glu Asp Leu Phe Ile Val Ser Lys Leu Trp Pro Thr Phe Phe Glu Arg  
115 120 125  
Pro Leu Val Arg Lys Ala Phe Glu Lys Thr Leu Lys Asp Leu Lys Leu  
130 135 140  
Ser Tyr Leu Asp Val Tyr Leu Ile His Trp Pro Gln Gly Phe Lys Ser  
145 150 155 160  
Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys Gly Asn Ala Ile Gly Gly  
165 170 175  
Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala Met Glu Glu Leu Val Asp



180 185 190  
Glu Gly Leu Val Lys Ala Leu Gly Val Ser Asn Phe Ser His Phe Gln  
195 200 205  
Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu Lys Tyr Lys Pro Val Thr  
210 215 220  
Asn Gln Val Glu Cys His Pro Tyr Leu Thr Gln Glu Lys Leu Ile Gln  
225 230 235 240  
Tyr Cys His Ser Lys Gly Ile Thr Val Thr Ala Tyr Ser Pro Leu Gly  
245 250 255  
Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu Asp Pro Ser Leu Leu Glu  
260 265 270  
Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys His Lys Lys Thr Ala Ala  
275 280 285  
Gln Val Leu Ile Arg Phe His Ile Gln Arg Asn Val Ile Val Ile Pro  
290 295 300  
Lys Ser Val Thr Pro Ala Arg Ile Val Glu Asn Ile Gln Val Phe Asp  
305 310 315 320  
Phe Lys Leu Ser Asp Glu Glu Met Ala Thr Ile Leu Ser Phe Asn Arg  
325 330 335  
Asn Trp Arg Ala Cys Asn Val Leu Gln Ser Ser His Leu Glu Asp Tyr  
340 345 350  
Pro Phe Asp Ala Glu Tyr  
355

&lt;210&gt; 924

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 924

Asn Xaa Ala Ser Met Pro Ser Pro Gln Arg Ala Ser Thr Arg Val Met  
1 5 10 15

Leu Ser Gly Asn Val Arg Cys Ser Cys His Arg Gly Pro Pro Pro Gly  
20 25 30  
Lys Cys Leu Val Ser Ser Gly Ser Arg Pro Gln Glu Arg Val Pro Cys  
35 40 45  
Gly Ala Leu Gly Ala Gly Pro Asp His His Gln Asp Ser Ser Leu Gly  
50 55 60  
Asp Arg Val Asn Ala Ile Ser Lys Asn Lys Asn  
65 70 75

<210> 925  
<211> 252  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (226)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (227)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (229)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE

&lt;222&gt; (249)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 925

Ala Thr Ala Asp Lys Glu Xaa Pro Gly Lys His Gln Lys Gly Asp Glu  
1 5 10 15

Val Ala Gly Ala Gly Arg Phe Ser Glu Arg Leu Pro Glu Cys Gly Arg  
20 25 30

Ala Ala Val Thr His Gln Trp Leu Ser Gln Tyr Pro Arg Ser Ser Arg  
35 40 45

Gly Xaa His Ala His Xaa Val Asn Pro Pro Tyr Tyr Ile Pro Leu Val  
50 55 60

Glu Leu Val Pro His Pro Glu Thr Ala Pro Thr Thr Val Asp Arg Thr  
65 70 75 80

His Ala Leu Met Lys Lys Ile Gly Gln Cys Pro Met Arg Val Gln Lys  
85 90 95

Glu Val Ala Gly Phe Val Leu Asn Arg Leu Gln Tyr Ala Ile Ile Ser  
100 105 110

Glu Ala Trp Arg Leu Val Glu Glu Gly Ile Val Ser Pro Ser Asp Leu  
115 120 125

Asp Leu Val Met Ser Glu Gly Leu Gly Met Arg Tyr Ala Phe Ile Gly  
130 135 140

Pro Leu Glu Thr Met His Leu Asn Ala Glu Gly Met Leu Ser Tyr Cys  
145 150 155 160

Asp Arg Tyr Ser Glu Gly Ile Lys His Val Leu Gln Thr Phe Gly Pro  
165 170 175

Ile Pro Glu Phe Ser Arg Ala Thr Ala Glu Lys Val Asn Gln Asp Met  
180 185 190

Cys Met Lys Val Pro Asp Asp Pro Glu His Leu Ala Ala Arg Arg Gln  
195 200 205

Trp Arg Asp Glu Cys Leu Met Arg Leu Ala Lys Leu Lys Ser Gln Val  
210 215 220

Gln Xaa Xaa Trp Xaa Phe Pro Pro Phe Leu Phe Ser Leu Ile Ala Phe  
225 230 235 240

Asp Tyr Ile Leu Gln Pro Val Ile Xaa Val Ser Trp  
245 250

<210> 926  
<211> 220  
<212> PRT  
<213> Homo sapiens

<400> 926

Arg Pro Pro Leu Ser Trp Ser Ala Gly Pro Ser Leu Ala Ala Pro Ala  
1 5 10 15  
Ala Met Ser Ser Glu Met Glu Pro Leu Leu Trp Ala Trp Ser Tyr Phe  
20 25 30  
Arg Arg Arg Lys Phe Gln Leu Trp Pro Ile Tyr Ala Arg Arg Cys Trp  
35 40 45  
Arg Ser Pro Leu Met Thr Arg Arg Leu Leu Gln Met Gly Ile Tyr Asn  
50 55 60  
Gly Gln Leu Phe Asn Asn Leu Gly Leu Cys Cys Phe Tyr Ala Gln Gln  
65 70 75 80  
Tyr Asp Met Thr Leu Thr Ser Phe Glu Arg Ala Leu Ser Leu Ala Glu  
85 90 95  
Asn Glu Glu Glu Ala Ala Asp Val Trp Tyr Asn Leu Gly His Val Ala  
100 105 110  
Val Gly Ile Gly Asp Thr Asn Leu Ala His Gln Cys Phe Arg Leu Ala  
115 120 125  
Leu Val Asn Asn Asn Asn His Ala Glu Ala Tyr Asn Asn Leu Ala Val  
130 135 140  
Leu Glu Met Arg Lys Gly His Val Glu Gln Ala Arg Ala Leu Leu Gln  
145 150 155 160  
Thr Ala Ser Ser Leu Ala Pro His Met Tyr Glu Pro His Phe Asn Phe  
165 170 175  
Ala Thr Ile Ser Asp Lys Ile Gly Asp Leu Gln Arg Ser Tyr Val Ala  
180 185 190  
Ala Gln Lys Ser Glu Ala Ala Phe Pro Asp His Val Asp Thr Gln His  
195 200 205  
Leu Ile Lys Gln Leu Arg Gln His Phe Ala Met Leu  
210 215 220

<210> 927  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 927  
Ser Ser Trp Met Ser Ile Ser Ala Tyr Cys His Pro Ile Glu Thr Leu  
1 5 10 15  
Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys  
20 25 30  
Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu  
35 40 45  
Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile  
50 55 60  
Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe  
65 70 75 80  
Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg  
85 90 95  
Gln Glu Lys Cys Asp Lys Pro Arg Arg  
100 105

<210> 928  
<211> 87  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 928

Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val  
1 5 10 15

Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile  
20 25 30

Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro  
35 40 45

Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys  
50 55 60

Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile  
65 70 75 80

Leu Leu Leu Leu Asn Val Met  
85

&lt;210&gt; 929

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (252)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (257)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 929

Ala Arg Ile Gly His Cys Val Glu Pro Pro Gly Ala Glu Ile Arg Met  
1 5 10 15

Phe Arg Phe Met Arg Asp Val Glu Pro Glu Asp Pro Met Phe Leu Met  
20 25 30

Asp Pro Phe Ala Ile His Arg Gln His Met Ser Arg Met Leu Ser Gly  
35 40 45

Gly Phe Gly Tyr Ser Pro Phe Leu Ser Ile Thr Asp Gly Asn Met Pro  
50 55 60

Gly Thr Arg Pro Ala Ser Arg Arg Met Gln Gln Ala Gly Ala Val Ser  
65 70 75 80

Pro Phe Gly Met Leu Gly Met Ser Gly Gly Phe Met Asp Met Phe Gly  
85 90 95  
Met Met Asn Asp Met Ile Gly Asn Met Glu His Met Thr Ala Gly Gly  
100 105 110  
Asn Cys Gln Thr Phe Ser Ser Ser Thr Val Ile Ser Tyr Ser Asn Thr  
115 120 125  
Gly Asp Gly Ala Pro Lys Val Tyr Gln Glu Thr Ser Glu Met Arg Ser  
130 135 140  
Ala Pro Gly Gly Ile Arg Glu Thr Arg Arg Thr Val Arg Asp Ser Asp  
145 150 155 160  
Ser Gly Leu Glu Gln Met Ser Ile Gly His His Ile Arg Asp Arg Ala  
165 170 175  
His Ile Leu Gln Arg Ser Arg Asn His Arg Thr Gly Asp Gln Glu Glu  
180 185 190  
Arg Gln Asp Tyr Ile Asn Leu Asp Glu Ser Glu Ala Ala Ala Phe Asp  
195 200 205  
Asp Glu Trp Arg Arg Glu Thr Ser Arg Phe Arg Gln Gln Arg Pro Leu  
210 215 220  
Glu Phe Arg Arg Leu Glu Ser Ser Gly Ala Gly Gly Arg Arg Arg Arg  
225 230 235 240  
Gly Leu Pro Ala Trp Pro Ser Arg Asp Leu Arg Xaa Pro Leu Ser Arg  
245 250 255  
Xaa Ser Arg Arg Tyr Asp Trp  
260

&lt;210&gt; 930

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (115)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (152)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (225)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930  
Gly Leu Asn Pro Gly Leu Val Gly Leu Ser Val Ser Tyr Ser Leu Gln  
1 5 10 15  
Val Thr Phe Ala Leu Asn Trp Met Ile Arg Met Met Ser Asp Leu Glu  
20 25 30  
Ser Asn Ile Val Ala Val Glu Arg Val Lys Glu Tyr Ser Lys Thr Glu  
35 40 45  
Thr Glu Ala Pro Trp Val Val Glu Gly Ser Arg Pro Pro Glu Gly Trp  
50 55 60  
Pro Pro Arg Gly Glu Val Glu Phe Arg Asn Tyr Ser Val Arg Tyr Arg  
65 70 75 80  
Pro Gly Leu Asp Leu Val Leu Arg Asp Leu Ser Leu His Val His Gly  
85 90 95  
Gly Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Xaa Ser Ser  
100 105 110  
Met Thr Xaa Cys Leu Phe Arg Ile Leu Glu Ala Ala Lys Gly Glu Ile  
115 120 125  
Arg Ile Asp Gly Leu Asn Val Ala Asp Ile Gly Leu His Asp Leu Arg  
130 135 140  
Ser Gln Leu Thr Ile Ile Pro Xaa Asp Pro Ile Leu Phe Ser Gly Thr  
145 150 155 160  
Leu Arg Met Asn Leu Asp Pro Phe Gly Ser Tyr Ser Glu Glu Asp Ile  
165 170 175  
Trp Trp Ala Leu Glu Leu Ser His Leu His Thr Phe Val Ser Ser Gln  
180 185 190  
Pro Ala Ala Trp Asp Phe Gln Cys Ser Glu Gly Gly Glu Asn Leu Ser



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          195              200              205
Val Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Leu Leu Arg Lys
  210              215              220
Xaa Arg Ile Leu Val Leu Asp Glu Ala Thr Ala Ala Ile Asp Leu Glu
  225              230              235              240
Thr Asp Asn Leu Ile Gln Ala Thr Ile Arg Thr Gln Phe Asp Thr Cys
          245              250              255
Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Met Asp Tyr Thr
          260              265              270
Arg Val Leu Val Leu Asp Lys Gly Val Val Ala Glu Phe Asp Ser Pro
          275              280              285
Ala Asn Leu Ile Ala Ala Arg Gly Ile Phe Tyr Gly Met Ala Arg Asp
          290              295              300
Ala Gly Leu Ala
305

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<210> 931
<211> 46
<212> PRT
<213> Homo sapiens

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<400> 931
Arg Gly Cys Ala Leu Ser Cys Ala Asp Val Gln His Leu Leu Tyr Phe
  1              5              10              15
Asn Gly Ile Val Leu Leu Asp His Tyr Arg Thr Thr Asn Cys Gln Arg
          20              25              30
Val Asn Thr Asp Asp Pro Asp Leu Thr Leu Asn Pro Leu Asp
          35              40              45

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<210> 932
<211> 334
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
<221> SITE  
<222> (191)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (227)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (246)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 932  
Glu Arg Glu Thr Ser Ser Leu Leu Leu Gly Leu Ser Val Cys Ala  
1 5 10 15  
Thr Gly Arg Lys Ala Cys Val Arg Leu Arg Glu Trp Ala Leu Ser Arg  
20 25 30  
Pro Leu Thr Met Glu Glu Leu Glu Gln Gly Leu Leu Met Gln Pro Trp  
35 40 45  
Ala Trp Leu Gln Leu Ala Glu Asn Ser Leu Leu Ala Lys Val Phe Ile  
50 55 60  
Thr Lys Gln Gly Tyr Ala Leu Leu Val Ser Asp Leu Gln Gln Val Trp  
65 70 75 80  
His Glu Gln Val Asp Thr Ser Val Val Ser Gln Arg Ala Lys Glu Leu  
85 90 95  
Asn Lys Arg Leu Thr Ala Pro Pro Ala Ala Phe Leu Cys His Leu Asp  
100 105 110  
Asn Leu Leu Arg Pro Leu Leu Lys Asp Ala Ala His Pro Ser Xaa Ala  
115 120 125  
Thr Phe Ser Cys Asp Cys Val Ala Asp Ala Leu Ile Leu Arg Val Arg  
130 135 140  
Ser Glu Leu Ser Gly Leu Pro Phe Tyr Trp Asn Phe His Cys Met Leu  
145 150 155 160  
Ala Ser Pro Ser Leu Val Ser Gln His Leu Ile Arg Pro Leu Met Gly  
165 170 175  
Met Ser Leu Ala Leu Gln Cys Gln Val Arg Glu Leu Ala Thr Xaa Leu

180 185 190  
His Met Lys Asp Leu Glu Ile Gln Asp Tyr Gln Glu Ser Gly Ala Thr  
195 200 205  
Leu Ile Arg Asp Arg Leu Lys Thr Glu Pro Phe Glu Glu Asn Ser Phe  
210 215 220  
Leu Glu Xaa Phe Met Ile Glu Lys Leu Pro Glu Ala Cys Ser Ile Gly  
225 230 235 240  
Asp Gly Lys Pro Phe Xaa Met Asn Leu Gln Asp Leu Tyr Met Ala Val  
245 250 255  
Thr Thr Gln Glu Val Gln Val Gly Gln Lys His Gln Gly Ala Gly Asp  
260 265 270  
Pro His Thr Ser Asn Ser Ala Ser Leu Gln Gly Ile Asp Ser Gln Cys  
275 280 285  
Val Asn Gln Pro Glu Gln Leu Val Ser Ser Ala Pro Thr Leu Ser Ala  
290 295 300  
Pro Glu Lys Glu Ser Thr Gly Thr Ser Gly Pro Leu Gln Arg Pro Gln  
305 310 315 320  
Leu Ser Lys Val Lys Arg Lys Lys Pro Arg Gly Leu Phe Ser  
325 330

<210> 933  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 933  
Pro Ser Cys Gln Arg Pro Lys Ser Val Ser Trp Cys His Val His Thr  
1 5 10 15  
Pro Cys His Phe Thr Leu His Leu Ser Pro Ser Phe Pro Met His Ala  
20 25 30  
Tyr Ser Glu His Pro Cys Val Gly Pro Ser Ser Ala Ser Arg Ala Cys  
35 40 45  
Ser Ala Val Gly Leu Phe Cys Gly Arg Lys Glu Ala Val Ser Ala Phe  
50 55 60  
Ser Asp Gly Thr Gly Val Glu Gly Arg Ser Cys Ile Val Ala Leu Leu  
65 70 75 80

Asn Ser Pro Phe Cys Ser Ile Leu Val  
85

<210> 934  
<211> 314  
<212> PRT  
<213> Homo sapiens

<400> 934  
Asp Pro Tyr Ser Gln Ser Ala Thr Ala Phe Asn Glu Met Ile Gln Glu  
1 5 10 15  
Asn Gly Tyr Asn Phe Asp Arg Ser Ser Ser Thr Phe Ser Gly Ile Lys  
20 25 30  
Glu Leu Ala Arg Arg Phe Ala Leu Thr Phe Gly Leu Asp Gln Leu Lys  
35 40 45  
Thr Arg Glu Ala Ile Ala Met Leu His Lys Asp Gly Ile Glu Phe Ala  
50 55 60  
Phe Lys Glu Pro Asn Pro Gln Gly Glu Ser His Pro Pro Leu Asn Leu  
65 70 75 80  
Ala Phe Leu Asp Ile Leu Ser Glu Phe Ser Ser Lys Leu Leu Arg Gln  
85 90 95  
Asp Lys Arg Thr Val Tyr Val Tyr Leu Glu Lys Phe Met Thr Phe Gln  
100 105 110  
Met Ser Leu Arg Arg Glu Asp Val Trp Leu Pro Leu Met Ser Tyr Arg  
115 120 125  
Asn Ser Leu Leu Ala Gly Gly Asp Asp Asp Thr Met Ser Val Ile Ser  
130 135 140  
Gly Ile Ser Ser Arg Gly Ser Thr Val Arg Ser Lys Lys Ser Lys Pro  
145 150 155 160  
Ser Thr Gly Lys Arg Lys Val Val Glu Gly Met Gln Leu Ser Leu Thr  
165 170 175  
Glu Glu Ser Ser Ser Ser Asp Ser Met Trp Leu Ser Arg Glu Gln Thr  
180 185 190  
Leu His Thr Pro Val Met Met Gln Thr Pro Gln Leu Thr Ser Thr Ile  
195 200 205

Met Arg Glu Pro Lys Arg Leu Arg Pro Glu Asp Ser Phe Met Ser Val  
210 215 220  
Tyr Pro Met Gln Thr Glu His His Gln Thr Pro Leu Asp Tyr Asn Arg  
225 230 235 240  
Arg Gly Thr Ser Leu Met Glu Asp Asp Glu Glu Pro Ile Val Glu Asp  
245 250 255  
Val Met Met Ser Ser Glu Gly Arg Ile Glu Asp Leu Asn Glu Gly Met  
260 265 270  
Asp Phe Asp Thr Met Asp Ile Asp Leu Pro Pro Ser Lys Asn Arg Arg  
275 280 285  
Glu Arg Thr Glu Leu Lys Pro Asp Phe Phe Asp Pro Ala Ser Ile Met  
290 295 300  
Asp Glu Ser Val Leu Gly Val Ser Met Phe  
305 310

<210> 935  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 935  
Thr His Leu Ile Lys Glu Asn Ile Phe Pro Ala Arg Lys Val Tyr Ser  
1 5 10 15  
Phe Ser Phe Lys Leu Ser His Leu Glu Gly Ser Cys Glu Leu Ala Tyr  
20 25 30  
Leu Gln Val Val Lys Val Pro Phe Ser Val Leu Phe Cys Phe Val Leu  
35 40 45  
Phe Phe Ser Phe Thr Gln Pro Asn Val Lys Val Val Asn Leu Gly Lys  
50 55 60  
Ser Leu Val Met Lys Cys Glu Ser Cys Tyr Gln Ile Tyr Phe Ser Asp  
65 70 75 80  
Val Ser Phe Leu Ile Leu Val Ala Asn Lys Thr Leu Thr Phe Ser Arg  
85 90 95  
Phe Ile Asp Glu Val Lys Ser Leu Val Cys Cys Glu Leu  
100 105

&lt;210&gt; 936

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 936

Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile  
1 5 10 15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser  
20 25 30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr  
35 40 45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His  
50 55 60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile  
65 70 75 80

Phe Trp

&lt;210&gt; 937

&lt;211&gt; 237

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 937

Phe Gln Leu Tyr Glu Lys Phe Leu His Arg Tyr Lys Met Ile Ser Glu  
1 5 10 15

Phe Thr Trp Pro Asn His Asp Leu Pro Ser Asp Lys Glu Ala Val Lys  
20 25 30

Lys Leu Ile Glu Arg Cys Gly Phe Gln Asp Asp Val Ala Tyr Gly Lys  
35 40 45

Thr Lys Ile Phe Ile Arg Thr Pro Arg Thr Leu Phe Thr Leu Glu Glu  
50 55 60

Leu Arg Ala Gln Met Leu Ile Arg Ile Val Leu Phe Leu Gln Xaa Val  
65 70 75 80

Trp Arg Gly Thr Xaa Ala Arg Met Arg Tyr Lys Arg Thr Lys Ala Ala  
85 90 95

Leu Thr Ile Ile Arg Tyr Tyr Arg Arg Tyr Lys Val Lys Ser Tyr Ile  
100 105 110

His Glu Val Ala Arg Arg Phe His Gly Val Lys Thr Met Arg Asp Tyr  
115 120 125

Gly Lys His Val Lys Trp Pro Ser Pro Pro Lys Val Leu Arg Arg Phe  
130 135 140

Glu Glu Ala Leu Gln Thr Ile Phe Asn Arg Trp Arg Ala Ser Gln Leu  
145 150 155 160

Ile Lys Ser Ile Pro Ala Ser Asp Leu Pro Gln Val Arg Ala Lys Val  
165 170 175

Ala Ala Val Glu Met Leu Lys Gly Gln Arg Ala Asp Leu Gly Leu Gln  
180 185 190

Arg Ala Trp Glu Gly Asn Tyr Leu Ala Ser Lys Pro Asp Thr Pro Gln  
195 200 205

Thr Ser Gly Thr Phe Val Pro Val Ala Asn Glu Leu Lys Arg Lys Asp  
210 215 220

Lys Tyr Met Asn Val Leu Phe Ser Cys His Val Arg Lys  
225 230 235

&lt;210&gt; 938

&lt;211&gt; 752

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (748)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 938

Ala Cys Trp Pro Ala Gly Leu Ser Arg His Ala Arg Pro Leu Ser Asn

1	5	10	15
Lys Met Leu Gln Gln Val Pro Glu Asn Ile Asn Phe Pro Ala Glu Glu	20	25	30
Glu Lys Ile Leu Glu Phe Trp Thr Glu Phe Asn Cys Phe Gln Glu Cys	35	40	45
Leu Lys Gln Ser Lys His Lys Pro Lys Phe Thr Phe Tyr Asp Gly Pro	50	55	60
Pro Phe Ala Thr Gly Leu Pro His Tyr Gly His Ile Leu Ala Gly Thr	65	70	75
Ile Lys Asp Ile Val Thr Arg Tyr Ala His Gln Ser Gly Phe His Val	85	90	95
Asp Arg Arg Phe Gly Trp Asp Cys His Gly Leu Pro Val Glu Tyr Glu	100	105	110
Ile Asp Lys Thr Leu Gly Ile Arg Gly Pro Glu Asp Val Ala Lys Met	115	120	125
Gly Ile Thr Glu Tyr Asn Asn Gln Cys Arg Ala Ile Val Met Arg Tyr	130	135	140
Ser Ala Glu Trp Lys Ser Thr Val Ser Arg Leu Gly Arg Trp Ile Asp	145	150	155
Phe Asp Asn Asp Tyr Lys Thr Leu Tyr Pro Gln Phe Met Glu Ser Val	165	170	175
Trp Trp Val Phe Lys Gln Leu Tyr Asp Lys Gly Leu Val Tyr Arg Gly	180	185	190
Val Lys Val Met Pro Phe Ser Thr Ala Cys Asn Thr Pro Leu Ser Asn	195	200	205
Phe Glu Ser His Gln Asn Tyr Lys Asp Val Gln Asp Pro Ser Val Phe	210	215	220
Val Thr Phe Pro Leu Glu Glu Asp Glu Thr Val Ser Leu Val Ala Trp	225	230	235
Thr Thr Thr Pro Trp Thr Leu Pro Ser Asn Leu Ala Val Cys Val Asn	245	250	255
Pro Glu Met Gln Tyr Val Lys Ile Lys Asp Val Ala Arg Gly Arg Leu	260	265	270
Leu Ile Leu Met Glu Ala Arg Leu Ser Ala Leu Tyr Lys Leu Glu Ser			



275	280	285
Asp Tyr Glu Ile Leu Glu Arg Phe Pro Gly Ala Tyr Leu Lys Gly Lys		
290	295	300
Lys Tyr Arg Pro Leu Phe Asp Tyr Phe Leu Lys Cys Lys Glu Asn Gly		
305	310	315 320
Ala Phe Thr Val Leu Val Asp Asn Tyr Val Lys Glu Glu Glu Gly Thr		
325	330	335
Gly Val Val His Gln Ala Pro Tyr Phe Gly Ala Glu Asp Tyr Arg Val		
340	345	350
Cys Met Asp Phe Asn Ile Ile Arg Lys Asp Ser Leu Pro Val Cys Pro		
355	360	365
Val Asp Ala Ser Gly Cys Phe Thr Thr Glu Val Thr Asp Phe Ala Gly		
370	375	380
Gln Tyr Val Lys Asp Ala Asp Lys Ser Ile Ile Arg Thr Leu Lys Glu		
385	390	395 400
Gln Gly Arg Leu Leu Val Ala Thr Thr Phe Thr His Ser Tyr Pro Phe		
405	410	415
Cys Trp Arg Ser Asp Thr Pro Leu Ile Tyr Lys Ala Val Pro Ser Trp		
420	425	430
Phe Val Arg Val Glu Asn Met Val Asp Gln Leu Leu Arg Asn Asn Asp		
435	440	445
Leu Cys Tyr Trp Val Pro Glu Leu Val Arg Glu Lys Arg Phe Gly Asn		
450	455	460
Trp Leu Lys Asp Ala Arg Asp Trp Thr Ile Ser Arg Asn Arg Tyr Trp		
465	470	475 480
Gly Thr Pro Ile Pro Leu Trp Val Ser Asp Asp Phe Glu Glu Val Val		
485	490	495
Cys Ile Gly Ser Val Ala Glu Leu Glu Glu Leu Ser Gly Ala Lys Ile		
500	505	510
Ser Asp Leu His Arg Glu Ser Val Asp His Leu Thr Ile Pro Ser Arg		
515	520	525
Cys Gly Lys Gly Ser Leu His Arg Ile Ser Glu Val Phe Asp Cys Trp		
530	535	540
Phe Glu Ser Gly Ser Met Pro Tyr Ala Gln Val His Tyr Pro Phe Glu		

545											550											555											560				
Asn	Lys	Arg	Glu	Phe	Glu	Asp	Ala	Phe	Pro	Ala	Asp	Phe	Ile	Ala	Glu																						
															565											570											575
Gly	Ile	Asp	Gln	Thr	Arg	Gly	Trp	Phe	Tyr	Thr	Leu	Leu	Val	Leu	Ala																						
															580											585											590
Thr	Ala	Leu	Phe	Gly	Gln	Pro	Pro	Phe	Lys	Asn	Val	Ile	Val	Asn	Gly																						
															595											600											605
Leu	Val	Leu	Ala	Ser	Asp	Gly	Gln	Lys	Met	Ser	Lys	Arg	Lys	Lys	Asn																						
															610											615											620
Tyr	Pro	Asp	Pro	Val	Ser	Ile	Ile	Gln	Lys	Tyr	Gly	Ala	Asp	Ala	Leu																						
															625											630											635
Arg	Leu	Tyr	Leu	Ile	Asn	Ser	Pro	Val	Val	Arg	Ala	Glu	Asn	Leu	Arg																						
															645											650											655
Phe	Lys	Glu	Glu	Gly	Val	Arg	Asp	Val	Leu	Lys	Asp	Val	Leu	Leu	Pro																						
															660											665											670
Trp	Tyr	Asn	Ala	Tyr	Arg	Phe	Leu	Ile	Gln	Asn	Val	Leu	Arg	Leu	Gln																						
															675											680											685
Lys	Glu	Glu	Glu	Ile	Glu	Phe	Leu	Tyr	Asn	Glu	Asn	Thr	Val	Arg	Glu																						
															690											695											700
Ser	Pro	Asn	Ile	Thr	Asp	Arg	Trp	Ile	Leu	Ser	Phe	Met	Gln	Ser	Leu																						
															705											710											715
Ile	Gly	Phe	Phe	Glu	Thr	Glu	Met	Ala	Gly	Glu	Ser	Leu	Leu	Val	Cys																						
															725											730											735
Pro	Pro	Arg	Asn	Lys	Asp	Tyr	Ser	Leu	Cys	Asn	Xaa	Pro	Phe	Asp	Ile																						
															740											745											750

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<210> 939
<211> 104
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 939

Met Arg Arg Val Ile Leu His Ser Pro Leu Met Ser Gly Leu Arg Val  
1 5 10 15

Ala Phe Pro Asp Thr Arg Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser  
20 25 30

Ile Asp Lys Ile Ser Lys Val Thr Ser Pro Val Leu Val Ile His Gly  
35 40 45

Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu  
50 55 60

Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His  
65 70 75 80

Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe  
85 90 95

Ile Ser His Glu Leu Pro Asn Ser  
100

<210> 940

<211> 557

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (248)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (273)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (323)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 940

Gly Glu Gly Gly Gly Xaa Arg Arg Gly Arg Pro Ala Ala Gly Arg Pro  
1 5 10 15

Arg Arg Xaa Arg Thr Ala Gly Arg Xaa Gly Gly Thr Gly Ala Pro Ala  
20 25 30

Gly Ala Ser Ala His Arg Asp Ala Gly Leu Leu Arg Glu Arg Pro Ala  
35 40 45

Ala Gly Glu Ala Xaa Gly Arg Thr Glu Leu Ser Leu Arg Phe Leu  
50 55 60

Ser Ala Glu Leu Thr Arg Gly Tyr Phe Leu Glu His Asn Glu Ala Lys  
65 70 75 80

Tyr Thr Glu Arg Arg Glu Arg Val Tyr Thr Cys Leu Arg Ile Pro Arg  
85 90 95

Glu Leu Glu Lys Leu Met Val Phe Gly Ile Phe Leu Cys Leu Asp Ala  
100 105 110

Phe Leu Tyr Val Phe Thr Leu Leu Pro Leu Arg Val Phe Leu Ala Leu  
115 120 125

Phe Arg Leu Leu Thr Leu Pro Cys Tyr Gly Leu Arg Asp Arg Arg Leu  
130 135 140

Leu Gln Pro Ala Gln Val Cys Asp Ile Leu Lys Gly Val Ile Leu Val  
145 150 155 160

Ile Cys Tyr Phe Met Met His Tyr Val Asp Tyr Ser Met Met Tyr His  
165 170 175

Leu Ile Arg Gly Gln Ser Val Ile Lys Leu Tyr Ile Ile Tyr Asn Met  
180 185 190

Leu Glu Val Ala Asp Arg Leu Phe Ser Ser Phe Gly Gln Asp Ile Leu  
195 200 205

Asp Ala Leu Tyr Trp Thr Ala Thr Glu Pro Lys Glu Arg Lys Arg Ala  
210 215 220

His Ile Gly Val Ile Pro His Phe Phe Met Ala Val Leu Tyr Val Phe  
225 230 235 240

Leu His Ala Ile Leu Ile Met Xaa Gln Ala Thr Thr Leu Asn Val Ala  
245 250 255

Phe Asn Ser His Asn Lys Ser Leu Ser Thr Ile Met Met Ser Asn Asn  
260 265 270

Xaa Val Glu Ile Lys Gly Ser Val Phe Lys Lys Phe Glu Lys Asn Asn  
275 280 285

Leu Phe Gln Met Ser Asn Ser Asp Ile Lys Glu Arg Phe Thr Asn Tyr  
290 295 300

Val Leu Leu Leu Ile Val Cys Leu Arg Asn Met Glu Gln Phe Ser Trp  
305 310 315 320

Asn Pro Xaa His Leu Trp Val Leu Phe Pro Asp Val Cys Met Val Ile  
325 330 335

Ala Ser Glu Ile Ala Val Asp Ile Val Lys His Ala Phe Ile Thr Lys  
340 345 350

Phe Asn Asp Ile Thr Ala Asp Val Tyr Ser Glu Tyr Arg Ala Ser Leu  
355 360 365

Ala Phe Asp Leu Val Ser Ser Arg Gln Lys Asn Ala Tyr Thr Asp Tyr  
370 375 380

Ser Asp Ser Val Ala Arg Arg Met Gly Phe Ile Pro Leu Pro Leu Ala  
385 390 395 400

Val Leu Leu Ile Arg Val Val Thr Ser Ser Ile Lys Val Gln Gly Ile  
405 410 415

Leu Ser Tyr Ala Cys Val Ile Leu Phe Tyr Phe Gly Leu Ile Ser Leu  
420 425 430

Lys Val Leu Asn Ser Ile Val Leu Leu Gly Lys Ser Cys Gln Tyr Val  
435 440 445

Lys Glu Ala Lys Met Glu Glu Lys Leu Ser Asn Pro Pro Ala Thr Cys  
450 455 460

Thr Pro Gly Lys Pro Ser Ser Lys Ser Gln Asn Lys Cys Lys Pro Ser  
465 470 475 480

Gln Gly Leu Ser Thr Glu Glu Asn Leu Ser Ala Ser Ile Thr Lys Gln  
485 490 495

Pro Ile His Gln Lys Glu Asn Ile Ile Pro Leu Leu Val Thr Ser Asn  
500 505 510

Ser Asp Gln Phe Leu Thr Thr Pro Asp Gly Asp Glu Lys Asp Ile Thr  
515 520 525

Gln Asp Asn Ser Glu Leu Lys His Arg Ser Ser Lys Lys Asp Leu Leu  
530 535 540

Glu Ile Asp Arg Phe Thr Ile Cys Gly Asn Arg Ile Asp  
545 550 555

<210> 941

<211> 707

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941

Pro Thr Arg Pro Val Leu Pro Val Ser Arg Cys Ser Gly Ala Phe Gln  
1 5 10 15

Pro Ser Val Ser Arg Arg Ser Gln Ala Gly Ser Ser Lys Phe Pro Thr  
20 25 30

Pro Leu Gly Pro Glu Asn Ser Gly Asn Pro Thr Leu Leu Ser Ser Ala  
35 40 45

Gln Pro Glu Thr Arg Val Ser Tyr Trp Thr Lys Leu Leu Ser Gln Leu  
50 55 60

Leu Ala Pro Leu Pro Gly Leu Leu Gln Lys Val Leu Ile Trp Ser Gln  
65 70 75 80

Leu Phe Gly Gly Met Phe Pro Thr Arg Trp Leu Asp Phe Ala Gly Val  
85 90 95

Tyr Ser Ala Leu Arg Ala Leu Lys Gly Arg Glu Lys Pro Ala Ala Pro  
100 105 110

Thr Ala Gln Lys Ser Leu Ser Ser Leu Gln Leu Asp Ser Ser Asp Pro  
115 120 125

Ser Val Thr Ser Pro Leu Asp Trp Leu Glu Glu Gly Ile His Trp Gln  
130 135 140

Tyr Ser Pro Pro Asp Leu Lys Leu Glu Leu Lys Ala Lys Gly Ser Ala  
145 150 155 160

Leu Asp Pro Ala Ala Gln Ala Phe Leu Leu Glu Gln Gln Leu Trp Gly  
165 170 175

Val Glu Leu Leu Pro Ser Ser Leu Gln Ser Arg Leu Tyr Ser Asn Arg  
180 185 190

Glu Leu Gly Ser Ser Pro Ser Gly Leu Leu Asn Ile Gln Arg Ile Asp  
195 200 205

Asn Phe Ser Val Val Ser Tyr Leu Leu Asn Pro Ser Tyr Leu Asp Cys  
210 215 220

Phe Pro Arg Leu Glu Val Ser Tyr Gln Asn Ser Asp Gly Asn Ser Glu  
225 230 235 240

Val Val Gly Phe Gln Thr Leu Thr Pro Glu Ser Ser Cys Leu Arg Glu  
245 250 255

Asp His Cys His Pro Gln Pro Leu Xaa Ala Glu Leu Ile Pro Xaa Ser  
260 265 270

Trp Gln Gly Cys Pro Pro Leu Ser Thr Glu Gly Leu Pro Glu Ile His  
275 280 285

His Leu Arg Met Lys Arg Leu Glu Phe Leu Gln Gln Ala Ser Lys Gly  
290 295 300

Gln Asp Xaa Pro Thr Pro Asp Gln Asp Asn Gly Tyr His Ser Leu Glu  
305 310 315 320

Glu Glu His Ser Leu Leu Arg Met Asp Pro Lys His Cys Arg Asp Asn  
 325 330 335  
 Pro Thr Gln Phe Val Pro Ala Ala Gly Asp Ile Pro Gly Asn Thr Gln  
 340 345 350  
 Glu Ser Thr Glu Glu Lys Ile Glu Leu Leu Thr Thr Glu Val Pro Leu  
 355 360 365  
 Ala Leu Glu Glu Glu Ser Pro Ser Glu Gly Cys Pro Ser Ser Glu Ile  
 370 375 380  
 Pro Met Glu Lys Glu Pro Gly Glu Gly Arg Ile Ser Val Val Asp Tyr  
 385 390 395 400  
 Ser Tyr Leu Glu Gly Asp Leu Pro Ile Ser Ala Arg Pro Ala Cys Ser  
 405 410 415  
 Asn Lys Leu Ile Asp Tyr Ile Leu Gly Gly Ala Ser Ser Asp Leu Glu  
 420 425 430  
 Thr Ser Ser Asp Pro Glu Gly Glu Asp Trp Asp Glu Glu Ala Glu Asp  
 435 440 445  
 Asp Gly Phe Asp Ser Asp Ser Ser Leu Ser Asp Ser Asp Leu Glu Gln  
 450 455 460  
 Asp Pro Glu Gly Leu His Leu Trp Asn Ser Phe Cys Ser Val Asp Pro  
 465 470 475 480  
 Tyr Asn Pro Gln Asn Phe Thr Ala Thr Ile Gln Thr Ala Ala Arg Ile  
 485 490 495  
 Val Pro Glu Glu Pro Ser Asp Ser Glu Lys Asp Leu Ser Gly Lys Ser  
 500 505 510  
 Asp Leu Glu Asn Ser Ser Gln Ser Gly Ser Leu Pro Glu Thr Pro Glu  
 515 520 525  
 His Ser Ser Gly Glu Glu Asp Asp Trp Glu Ser Ser Ala Asp Glu Ala  
 530 535 540  
 Glu Ser Leu Lys Leu Trp Asn Ser Phe Cys Asn Ser Asp Asp Pro Tyr  
 545 550 555 560  
 Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln Thr Ser Gly Glu Asn Glu  
 565 570 575  
 Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser Glu Ser Ile Val Ala Ile  
 580 585 590



Ser Glu Cys His Thr Leu Leu Ser Cys Lys Val Gln Leu Leu Gly Ser  
 595 600 605

Gln Glu Ser Glu Cys Pro Asp Ser Val Gln Arg Asp Val Leu Ser Gly  
 610 615 620

Gly Arg His Thr His Val Lys Arg Lys Lys Val Thr Phe Leu Glu Glu  
 625 630 635 640

Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu Asp Arg Lys Gly Pro Trp  
 645 650 655

Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe Gln Lys Arg Ile Gln Glu  
 660 665 670

Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr Phe Glu His Arg Glu Arg  
 675 680 685

Met Phe Asn Arg Leu Gln Gly Thr Cys Phe Lys Gly Leu Asn Val Leu  
 690 695 700

Lys Gln Cys  
 705

<210> 942

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 942

Arg Ile Thr Phe Ser Cys Ile Asn Tyr Ser Thr Gln Glu Leu Leu Arg  
 1 5 10 15

Phe Pro Lys Leu His Asp Ala Ile Val Glu Val Val Thr Cys Leu Leu  
 20 25 30

Arg Lys Arg Leu Pro Val Thr Asn Glu Met Val His Asn Leu Val Ala  
 35 40 45

Ile Glu Leu Ala Tyr Ile Asn Thr Lys His Pro Asp Phe Ala Asp Ala  
50 55 60

Cys Gly Xaa Met Asn Asn Asn Xaa Glu Glu Gln Arg Arg Asn Arg Leu  
65 70 75 80

Ala Arg Glu Leu Pro Ser Ala Val Ser Arg Asp Lys Val Ala Ser Gly  
85 90 95

Gly Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp  
100 105 110

Arg Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu  
115 120 125

Lys Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His  
130 135 140

Ala Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser  
145 150 155 160

Ala Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser  
165 170 175

Tyr Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala  
180 185 190

Val Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu  
195 200 205

Leu Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr  
210 215 220

Glu Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu  
225 230 235 240

Lys Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr  
245 250 255

His Leu Trp

&lt;210&gt; 943

&lt;211&gt; 369

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 943

Arg Cys Arg Gly Gly Arg Lys Met Glu Leu Gly Ser Cys Leu Glu Gly  
 1 5 10 15

Gly Arg Glu Ala Ala Glu Glu Glu Gly Glu Pro Glu Val Lys Lys Arg  
 20 25 30

Arg Leu Leu Cys Val Glu Phe Ala Ser Val Ala Ser Cys Asp Ala Ala  
 35 40 45

Val Ala Gln Cys Phe Leu Ala Glu Asn Asp Trp Glu Met Glu Arg Ala  
 50 55 60

Leu Asn Ser Tyr Phe Glu Pro Pro Val Glu Glu Ser Ala Leu Glu Arg  
 65 70 75 80

Arg Pro Glu Thr Ile Ser Glu Pro Lys Thr Tyr Val Asp Leu Thr Asn  
 85 90 95

Glu Glu Thr Thr Asp Ser Thr Thr Ser Lys Ile Ser Pro Ser Glu Asp  
 100 105 110

Thr Gln Gln Glu Asn Gly Ser Met Phe Ser Leu Ile Thr Trp Asn Ile  
 115 120 125

Asp Gly Leu Asp Leu Asn Asn Leu Ser Glu Arg Ala Arg Gly Val Cys  
 130 135 140

Ser Tyr Leu Ala Leu Tyr Ser Pro Asp Val Ile Phe Leu Gln Glu Val  
 145 150 155 160

Ile Pro Pro Tyr Tyr Ser Tyr Leu Lys Lys Arg Ser Ser Asn Tyr Glu  
 165 170 175

Ile Ile Thr Gly His Glu Glu Gly Xaa Phe Thr Ala Ile Met Leu Lys  
 180 185 190

Lys Ser Arg Val Lys Leu Lys Ser Gln Glu Ile Ile Pro Phe Pro Ser  
 195 200 205

Thr Lys Met Met Arg Asn Leu Leu Cys Val His Val Asn Val Ser Gly  
 210 215 220

Asn Glu Leu Cys Leu Met Thr Ser His Leu Glu Ser Thr Arg Gly His  
 225 230 235 240

Ala Ala Glu Arg Met Asn Gln Leu Lys Met Val Leu Lys Lys Met Gln  
 245 250 255

Glu Ala Pro Glu Ser Ala Thr Val Ile Phe Ala Gly Asp Thr Asn Leu  
 260 265 270

Arg Asp Arg Glu Val Thr Arg Cys Gly Gly Leu Pro Asn Asn Ile Val  
 275 280 285

Asp Val Trp Glu Phe Leu Gly Lys Pro Lys His Cys Gln Tyr Thr Trp  
 290 295 300

Asp Thr Gln Met Asn Ser Asn Leu Gly Ile Thr Ala Ala Cys Lys Leu  
 305 310 315 320

Arg Phe Asp Arg Ile Phe Phe Arg Ala Ala Ala Glu Glu Gly His Ile  
 325 330 335

Ile Pro Arg Ser Leu Asp Leu Leu Gly Leu Glu Lys Leu Asp Cys Gly  
 340 345 350

Arg Phe Pro Ser Asp His Trp Gly Leu Leu Cys Asn Leu Asp Ile Ile  
 355 360 365

Leu

<210> 944

<211> 158

<212> PRT

<213> Homo sapiens

<400> 944

Tyr Ile Gln Phe Met Val Ser Tyr Asn Pro Thr Pro Arg Leu Asp Val  
 1 5 10 15

Ser Ser Pro Asn Glu Ala Gly Arg Pro Glu Trp Glu Val His Val Ser  
 20 25 30

Tyr His Ser Ser Phe Tyr Val Gly Gly Cys Ser Ala Ala Arg Arg Val  
 35 40 45

Met Gly Val Asn Pro Tyr Ile Leu Lys Lys Asn Met Ile Leu Met Thr  
 50 55 60

Asn His Phe Tyr Ala Ala Ile Leu Gly Tyr Asp Glu Gly Ile Leu Ser  
 65 70 75 80

Asp Asp His Gly Leu Ala Ala Ala Leu Trp Arg Thr Phe Phe Asn Arg  
 85 90 95

Lys Cys Glu Asp Pro Arg His Leu Glu Leu Leu Val Glu Tyr Val Arg  
 100 105 110

Lys Gln Ile Gln Tyr Leu Asp Ser Met Asn Gly Glu Asp Leu Leu Leu  
 115 120 125

Thr Gly Glu Val Ser Trp Arg Pro Leu Val Glu Lys Asn Pro Gln Ser  
 130 135 140

Ile Leu Lys Pro His Ser Pro Thr Tyr Asn Asp Glu Gly Leu  
 145 150 155

<210> 945

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 945

Lys Leu Val Pro Ala Arg Pro Xaa Asp Thr Gln Cys Arg Arg Pro Ser  
 1 5 10 15

Arg Arg Arg Gln Ile Gly Ala Asp Ser Cys Pro Ala Pro Thr Ala Ser  
 20 25 30

Ala Thr Met Ser His His Trp Gly Tyr Gly Lys His Asn Gly Pro Glu  
 35 40 45

His Trp His Lys Asp Phe Pro Ile Ala Lys Gly Glu Arg Gln Ser Pro  
 50 55 60

Val Asp Ile Asp Thr His Thr Ala Lys Tyr Asp Pro Ser Leu Lys Pro  
 65 70 75 80

Leu Ser Val Ser Tyr Asp Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn  
 85 90 95

Gly His Ala Phe Asn Val Glu Phe Asp Asp Ser Gln Asp Lys Ala Val  
 100 105 110

Leu Lys Gly Gly Pro Leu Asp Gly Thr Tyr Arg Leu Ile Gln Phe His  
 115 120 125

Phe His Trp Gly Ser Leu Asp Gly Gln Gly Ser Glu His Thr Val Asp  
 130 135 140

Lys Lys Lys Tyr Ala Ala Glu Leu His Leu Val His Trp Asn Thr Lys  
 145 150 155 160  
 Tyr Gly Asp Phe Gly Lys Ala Val Gln Gln Pro Asp Gly Leu Ala Val  
 165 170 175  
 Leu Gly Ile Phe Leu Lys Val Gly Ser Ala Lys Pro Gly Leu Gln Lys  
 180 185 190  
 Val Val Asp Val Leu Asp Ser Ile Lys Thr Lys Gly Lys Ser Ala Asp  
 195 200 205  
 Phe Thr Asn Phe Asp Pro Arg Gly Leu Leu Pro Glu Ser Leu Asp Tyr  
 210 215 220  
 Trp Thr Tyr Pro Gly Ser Leu Thr Thr Pro Pro Leu Leu Glu Cys Val  
 225 230 235 240  
 Thr Trp Ile Val Leu Lys Glu Pro Ile Ser Val Ser Ser Glu Gln Val  
 245 250 255  
 Leu Lys Phe Arg Lys Leu Asn Phe Asn Gly Glu Gly Glu Pro Glu Glu  
 260 265 270  
 Leu Met Val Asp Asn Trp Arg Pro Ala Gln Pro Leu Lys Asn Arg Gln  
 275 280 285  
 Ile Lys Ala Ser Phe Lys  
 290

&lt;210&gt; 946

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 946

Lys Ser Ile Glu Gln Lys Gly Met His Ala Val Phe Gln Trp Leu Arg  
 1 5 10 15  
 His Ala Phe Tyr Ser Leu Thr Ser Ile His Phe Phe Thr Thr Cys Ile  
 20 25 30  
 Lys Thr Asn Asp Leu Cys Phe Cys His Arg Gln Lys Gln Val Asp Thr  
 35 40 45  
 Gly Gly Leu Ala Leu Leu Ile Asn Phe Phe Ser Ile Arg Phe Ser Leu  
 50 55 60

Ile Met Leu Asn Phe  
65

<210> 947

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

Leu Xaa Lys Gly Thr Lys Leu Xaa Leu His Arg Gly Ala Asp Arg Ser  
1 5 10 15

Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Ile Asn  
20 25 30

Arg Ile Phe Arg Ile Cys Asn Leu Thr Arg Pro Gln Glu Gly Tyr Leu  
35 40 45

Met Val Gln Gln Phe Gln Tyr Leu Gly Trp Ala Ser His Arg Glu Val  
50 55 60

Pro Gly Ser Lys Arg Ser Phe Leu Lys Leu Ile Leu Gln Val Glu Lys  
65 70 75 80

Trp Gln Glu Glu Cys Glu Glu Gly Glu Gly Arg Thr Ile Ile His Cys  
85 90 95

Leu Asn Gly Gly Gly Arg Ser Gly Met Phe Cys Ala Ile Gly Ile Val  
100 105 110

Val Glu Met Val Lys Arg Ala Lys Cys Cys Arg Cys Phe Pro Cys Ser  
115 120 125

Lys Xaa Thr Glu Gly Thr Ala Ser Gln Thr Trp Trp Glu Ala Pro Glu

130 135 140  
Gln Tyr Arg Phe Cys Tyr Asp Val Ala Leu Glu Tyr Leu Gly Ile Ile  
145 150 155 160  
Leu Val Gly

<210> 948  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 948  
Thr Ser Leu Lys Pro Cys Arg Asn Glu Ser Leu Leu Leu Asn Glu Met  
1 5 10 15  
Leu Lys Pro Ile Lys Lys His Ala Val Met Pro Ser Phe Pro Phe His  
20 25 30  
Arg Val His Ala Ser Pro Ala Gly Glu Ser His Ala Ala Arg Gly Asn  
35 40 45  
Trp Leu His Ser Leu Gly Cys Cys Arg Thr Lys Arg Lys Glu Ala Ala  
50 55 60  
Lys Cys Leu Tyr Val Val Leu Asn Pro Arg Arg Ile Lys Cys Arg Gly  
65 70 75 80  
Gly Met Ala Lys Gly Gly Trp  
85

<210> 949  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 949  
 Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn  
           1                  5                  10                  15  
 Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser  
                   20                  25                  30  
 Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro  
           35                  40                  45  
 Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp  
           50                  55                  60  
 Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr  
           65                  70                  75                  80  
 Xaa Glu Gly Xaa Cys Gly Asn Trp  
                   85

<210> 950  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 950  
 Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His  
           1                  5                  10                  15  
 Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala  
                   20                  25                  30  
 Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys  
           35                  40                  45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn  
50 55 60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val  
65 70 75

<210> 951

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 951

Thr Ser Gly Pro Lys Ser Ser Ala Cys Leu Ser Leu Pro Arg Cys Trp  
1 5 10 15

Asp Tyr Lys Cys Glu Pro Leu Cys Thr Xaa Phe Val Leu Thr Tyr Phe  
20 25 30

Glu Leu Ala Pro Tyr Ser Lys Ala Ala Ser  
35 40

<210> 952

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 952

Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys  
1 5 10 15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile  
20 25 30

Ile Xaa Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe  
35 40 45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser

50

55

&lt;210&gt; 953

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (220)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 953

Arg Pro Cys Pro Glu Glu Ala Glu Ile Gly Ile Ala Met Gly Ser Gly  
1 5 10 15

Thr Ala Val Ala Lys Thr Ala Ser Glu Met Val Leu Ala Asp Asp Asn  
20 25 30

Phe Ser Thr Ile Val Xaa Ala Val Glu Glu Gly Arg Ala Ile Tyr Asn  
35 40 45

Asn Met Lys Gln Phe Ile Arg Tyr Leu Ile Ser Ser Asn Val Gly Glu  
50 55 60

Val Val Cys Ile Phe Leu Thr Ala Ala Leu Gly Leu Pro Glu Ala Leu  
65 70 75 80

Ile Pro Val Gln Leu Leu Trp Val Asn Leu Val Thr Asp Gly Leu Pro  
85 90 95

Ala Thr Ala Leu Gly Phe Asn Pro Pro Asp Leu Asp Ile Met Asp Arg  
100 105 110

Pro Pro Arg Ser Pro Lys Glu Pro Leu Ile Ser Gly Trp Leu Phe Phe  
115 120 125

Arg Tyr Met Ala Ile Gly Gly Tyr Val Gly Ala Ala Thr Val Gly Ala  
130 135 140

Ala Ala Trp Trp Phe Leu Tyr Ala Glu Asp Gly Pro His Val Asn Tyr  
 145 150 155 160

Ser Gln Leu Thr His Phe Met Gln Cys Thr Glu Asp Asn Thr His Phe  
 165 170 175

Glu Gly Ile Xaa Cys Glu Val Phe Glu Ala Pro Glu Pro Met Thr Met  
 180 185 190

Ala Leu Ser Val Leu Val Thr Ile Glu Met Cys Asn Ala Leu Asn Ser  
 195 200 205

Leu Ser Glu Asn Gln Ser Leu Leu Arg Asn Cys Xaa Pro Trp Gly  
 210 215 220

<210> 954  
 <211> 412  
 <212> PRT  
 <213> Homo sapiens

<400> 954  
 His Glu Leu Met Gln Glu Ala Gly Asp Glu Cys Glu Pro Glu Trp Cys  
 1 5 10 15

Asp Ala Glu Asp Pro Leu Phe Ile Leu Tyr Thr Ser Gly Ser Thr Gly  
 20 25 30

Lys Pro Lys Gly Val Val His Thr Val Gly Gly Tyr Met Leu Tyr Val  
 35 40 45

Ala Thr Thr Phe Lys Tyr Val Phe Asp Phe His Ala Glu Asp Val Phe  
 50 55 60

Trp Cys Thr Ala Asp Ile Gly Trp Ile Thr Gly His Ser Tyr Val Thr  
 65 70 75 80

Tyr Gly Pro Leu Ala Asn Gly Ala Thr Ser Val Leu Phe Glu Gly Ile  
 85 90 95

Pro Thr Tyr Pro Asp Val Asn Arg Leu Trp Ser Ile Val Asp Lys Tyr  
 100 105 110

Lys Val Thr Lys Phe Tyr Thr Ala Pro Thr Ala Ile Arg Leu Leu Met  
 115 120 125

Lys Phe Gly Asp Glu Pro Val Thr Lys His Ser Arg Ala Ser Leu Gln  
 130 135 140

Val Leu Gly Thr Val Gly Glu Pro Ile Asn Pro Glu Ala Trp Leu Trp  
 145 150 155 160  
 Tyr His Arg Val Val Gly Ala Gln Arg Cys Pro Ile Val Asp Thr Phe  
 165 170 175  
 Trp Gln Thr Glu Thr Gly Gly His Met Leu Thr Pro Leu Pro Gly Ala  
 180 185 190  
 Thr Pro Met Lys Pro Gly Ser Ala Thr Phe Pro Phe Phe Gly Val Ala  
 195 200 205  
 Pro Ala Ile Leu Asn Glu Ser Gly Glu Glu Leu Glu Gly Glu Ala Glu  
 210 215 220  
 Gly Tyr Leu Val Phe Lys Gln Pro Trp Pro Gly Ile Met Arg Thr Val  
 225 230 235 240  
 Tyr Gly Asn His Glu Arg Phe Glu Thr Thr Tyr Phe Lys Lys Phe Pro  
 245 250 255  
 Gly Tyr Tyr Val Thr Gly Asp Gly Cys Gln Arg Asp Gln Asp Gly Tyr  
 260 265 270  
 Tyr Trp Ile Thr Gly Arg Ile Asp Asp Met Leu Asn Val Ser Gly His  
 275 280 285  
 Leu Leu Ser Thr Ala Glu Val Glu Ser Ala Leu Val Glu His Glu Ala  
 290 295 300  
 Val Ala Glu Ala Ala Val Val Gly His Pro His Pro Val Lys Gly Glu  
 305 310 315 320  
 Cys Leu Tyr Cys Phe Val Thr Leu Cys Asp Gly His Thr Phe Ser Pro  
 325 330 335  
 Lys Leu Thr Glu Glu Leu Lys Lys Gln Ile Arg Glu Lys Ile Gly Pro  
 340 345 350  
 Ile Ala Thr Pro Asp Tyr Ile Gln Asn Ala Pro Gly Leu Pro Lys Thr  
 355 360 365  
 Arg Ser Gly Lys Ile Met Arg Arg Val Leu Arg Lys Ile Ala Gln Asn  
 370 375 380  
 Asp His Asp Leu Gly Asp Met Ser Thr Val Ala Asp Pro Ser Val Ile  
 385 390 395 400  
 Ser His Leu Phe Ser His Arg Cys Leu Thr Ile Gln  
 405 410

&lt;210&gt; 955

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

Gly Leu Leu Arg Ala Trp Gln Leu Arg Ile Asn Ala Gly Leu Arg Leu  
1 5 10 15

Ala Ala Arg Phe Leu Pro Glu Pro Leu Leu Ser Leu Val Asn His Thr  
20 25 30

Gly Gln Arg Ser Asp Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe  
35 40 45

Leu Ala Gly Phe Pro Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn  
50 55 60

Ser Pro Phe Tyr Tyr Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile  
65 70 75 80

Cys Ala Gly Val Leu Cys Ala Met Gly Ile Ile Ile Val Met Ser Glu  
85 90 95

Trp Arg Ser Ser Gly Glu Gln Ala Gly Arg Gly Trp Gly Ser Pro Pro  
100 105 110

Leu Thr Thr Gln Leu Ser Pro Thr Gly Ala Lys Cys Lys Cys Lys Phe  
115 120 125

Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile Thr  
130 135 140

Pro Gly Ser Ala Gln Ser  
145 150

&lt;210&gt; 956

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 956

Val Asp Pro Arg Val Xaa Pro Arg Ser Gly Gly Glu Lys Pro Gly Gly  
1 5 10 15  
Leu Gly Ala Pro Ala Gly Ile Gly Ser Arg Leu Gly Cys Glu Arg Phe  
20 25 30  
Ser Arg Ser Arg Glu Ile Leu Gln Ala Ile Thr Met Ser Thr Asp Thr  
35 40 45  
Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp Gln Gly Ser Lys Leu Ile  
50 55 60  
Arg Lys Ala Lys Glu Ala Pro Phe Val Pro Val Gly Ile Ala Gly Phe  
65 70 75 80  
Ala Ala Ile Val Ala Tyr Gly Leu Tyr Lys Leu Lys Ser Arg Gly Asn  
85 90 95  
Thr Lys Met Ser Ile His Leu Ile His Met Arg Val Ala Ala Gln Gly  
100 105 110  
Phe Val Val Gly Ala Met Thr Val Gly Met Gly Tyr Ser Met Tyr Arg  
115 120 125  
Glu Phe Trp Ala Lys Pro Lys Pro  
130 135

&lt;210&gt; 957

&lt;211&gt; 461

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (135)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (241)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 957

Ile Glu Thr Ser Asn Lys Asn Asp Met Thr Ile Asp Ile Leu His Ala  
 1 5 10 15

Asp Gly Glu Arg Pro Asn Val Leu Glu Asn Leu Asp Asn Ser Lys Glu  
 20 25 30

Lys Thr Val Gly Ser Glu Ala Ala Lys Thr Glu Asp Thr Val Leu Cys  
 35 40 45

Ser Ser Asp Thr Asp Glu Glu Cys Leu Ile Ile Xaa Thr Glu Cys Lys  
 50 55 60

Asn Asn Ser Asp Gly Lys Thr Ala Val Val Gly Ser Asn Leu Ser Ser  
 65 70 75 80

Arg Pro Ala Ser Pro Asn Ser Ser Ser Gly Gln Ala Ser Val Gly Asn  
 85 90 95

Gln Thr Asn Thr Ala Cys Xaa Pro Glu Glu Ser Cys Val Leu Lys Lys  
 100 105 110

Pro Ile Lys Arg Val Tyr Lys Lys Phe Asp Pro Val Gly Glu Ile Leu  
 115 120 125

Lys Met Gln Asp Glu Leu Xaa Lys Pro Ile Ser Arg Lys Val Pro Glu  
 130 135 140

Leu Pro Leu Met Asn Leu Glu Asn Ser Lys Gln Pro Ser Val Ser Glu  
 145 150 155 160

Gln Leu Ser Gly Pro Ser Asp Ser Ser Ser Trp Pro Lys Ser Gly Trp  
 165 170 175

Pro Ser Ala Phe Gln Lys Pro Lys Gly Arg Leu Pro Tyr Glu Leu Gln  
 180 185 190

Asp Tyr Val Glu Asp Thr Ser Glu Tyr Leu Ala Pro Gln Glu Gly Asn  
 195 200 205

Phe Val Tyr Lys Leu Phe Ser Leu Gln Asp Leu Leu Leu Val Arg  
 210 215 220

Cys Ser Val Gln Arg Ile Glu Thr Arg Pro Arg Ser Lys Lys Arg Lys  
 225 230 235 240

Xaa Ile Arg Arg Gln Phe Pro Val Tyr Val Leu Pro Lys Val Glu Tyr  
 245 250 255



Gln Ala Cys Tyr Gly Val Glu Ala Leu Thr Glu Ser Glu Leu Cys Arg  
260 265 270

Leu Trp Thr Glu Ser Leu Leu His Ser Asn Ser Ser Phe Tyr Val Gly  
275 280 285

His Ile Asp Ala Phe Thr Ser Lys Leu Phe Leu Leu Glu Glu Ile Thr  
290 295 300

Ser Glu Glu Leu Lys Glu Lys Leu Ser Ala Leu Lys Ile Ser Asn Leu  
305 310 315 320

Phe Asn Ile Leu Gln His Ile Leu Lys Lys Leu Ser Ser Leu Gln Glu  
325 330 335

Gly Ser Tyr Leu Leu Ser His Ala Ala Glu Asp Ser Ser Leu Leu Ile  
340 345 350

Tyr Lys Ala Ser Asp Gly Lys Val Thr Arg Thr Ala Tyr Asn Leu Tyr  
355 360 365

Lys Thr His Cys Gly Leu Pro Gly Val Pro Ser Ser Leu Ser Val Pro  
370 375 380

Trp Val Pro Leu Asp Pro Ser Leu Leu Leu Pro Tyr His Ile His His  
385 390 395 400

Gly Arg Ile Pro Cys Thr Phe Pro Pro Lys Ser Leu Asp Thr Thr Thr  
405 410 415

Gln Gln Lys Ile Gly Gly Thr Arg Met Pro Thr Arg Ser His Arg Asn  
420 425 430

Pro Val Ser Met Glu Thr Lys Ser Ser Cys Leu Pro Ala Gln Gln Val  
435 440 445

Glu Thr Glu Gly Val Ala Pro His Lys Arg Lys Ile Thr  
450 455 460

&lt;210&gt; 958

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 958

Asp Trp Gly Ala Thr Gln Xaa Arg Arg Ser Arg Asp Arg Arg Trp Gly  
 1 5 10 15

Pro Arg Asn Leu Ser Leu Asp Ile Gly Thr Glu Val Phe Ala Pro Gly  
 20 25 30

Pro Gly Ser Gly Ile Gln Lys Gln Arg Glu Pro Arg Lys Gly Arg Leu  
 35 40 45

Ile Val Cys Gly His Gly Thr Leu Glu Arg Asp Gly Val Phe Cys Leu  
 50 55 60

Leu Ser Asp Asp His Gly Ala Ser Trp Arg Tyr Gly Ser Gly Val Ser  
 65 70 75 80

Gly Ile Pro Tyr Gly Gln Pro Lys Gln Glu Asn Asp Phe Asn Pro Asp  
 85 90 95

Glu Cys Gln Pro Tyr Glu Leu Pro Asp Gly Ser Val Val Ile Asn Ala  
 100 105 110

Arg Asn Gln Asn Asn Tyr His Cys His Cys Arg Ile Val Leu Arg Ser  
 115 120 125

Tyr Asp Ala Cys Asp Thr Leu Arg Pro Arg Asp Val Thr Phe Asp Pro  
 130 135 140

Glu Leu Val Asp Pro Val Val Ala Ala Gly Ala Val Val Thr Ser Ser  
 145 150 155 160

Gly Ile Val Phe Phe Ser Asn Pro Ala His Pro Glu Phe Arg Val Asn  
 165 170 175

Leu Thr Leu Arg Trp Ser Phe Ser Asn Gly Thr Ser Trp Arg Lys Glu  
 180 185 190

Thr Val Gln Leu Trp Pro Gly Pro Ser Gly Tyr Ser Ser Leu Ala Thr  
 195 200 205

Leu Glu Gly Ser Met Asp Gly Glu Glu Gln Ala Pro Gln Leu Tyr Val  
 210 215 220

Leu Tyr Glu Lys Gly Arg Asn His Tyr Thr Glu Ser Ile Ser Val Ala  
 225 230 235 240

Lys Ile Ser Val Tyr Gly Thr Leu  
 245

<210> 959

<211> 105

<212> PRT

<213> Homo sapiens

<400> 959

Ile Arg His Glu Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro  
1 5 10 15

Arg Ile Ser Met Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala  
20 25 30

Ala Leu Leu Val Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu  
35 40 45

Pro Phe Ser Arg Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr  
50 55 60

Cys Ser Gln Met Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr  
65 70 75 80

Thr Asn Glu Cys Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp  
85 90 95

Ile Gln Ile Met Lys Asp Gly Lys Cys  
100 105

<210> 960

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (223)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 960

Leu Gly Trp Ser Leu Arg Gly Gly His Trp His Gly Thr His Pro Glu  
 1 5 10 15

Ala Ser Pro Gly Cys Pro Gly Gly Ala Ala Ser Ser Pro Ala Gly Trp  
 20 25 30

Trp Thr Arg Ser Val Arg Ser Trp Gly Ser Ser Phe Thr Ser Glu Asp  
 35 40 45

Cys Ser Thr Thr Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu  
 50 55 60

Thr Ser Val Xaa Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr  
 65 70 75 80

Asp Ile Asn Ser Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val  
 85 90 95

Glu Thr Gln Asn Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His  
 100 105 110

Lys Pro Cys Pro Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn  
 115 120 125

Gly Asp Glu Pro Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr  
 130 135 140

Asp Lys Ala His Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp  
 145 150 155 160

Glu Gly His Gly Leu Xaa Val Glu Ile Asn Cys Thr Arg Thr Gln Asn  
 165 170 175

Xaa Lys Cys Arg Cys Lys Pro Asn Phe Phe Xaa Asn Ser Thr Val Cys  
 180 185 190

Glu His Cys Asp Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu  
 195 200 205

Cys Thr Leu Thr Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Xaa Ser  
 210 215 220

Asn Leu Gly Trp Leu Trp Leu Leu Leu Leu Pro Ile Pro  
 225 230 235

<210> 961  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 961  
 Gln Pro Met Ser Ser Thr Trp Val Thr Asn His Ser Glu Ile Leu Asn  
 1 5 10 15  
 Thr Tyr Pro Leu Gly Ala Gly Gly Gly Asn Asp Val Gln Tyr Leu Lys  
 20 25 30  
 Gln Asn Leu Thr Trp Thr Glu Arg Leu Tyr Phe Pro Leu Leu His Glu  
 35 40 45  
 Ser Leu Ile Ile Leu Gly Gly Leu Leu Cys Ile Pro Pro Phe Leu Leu  
 50 55 60  
 Ser Pro Pro Leu Pro Phe Val Phe Ser Lys Glu Ser Glu Leu Arg Phe  
 65 70 75 80  
 Pro Cys Ser Pro Ala Thr Leu Ile Ser Lys Thr Cys Leu Cys Val Arg  
 85 90 95  
 Phe Phe Thr Gly Asn Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val  
 100 105 110  
 Ile Gln Phe Ser Ser Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr  
 115 120 125  
 Arg Phe Phe Arg  
 130

<210> 962  
 <211> 613  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Ala Val Ala Asn Met Ser Gly Trp Glu Ser Tyr Tyr Lys Thr Glu Gly  
 1 5 10 15  
 Asp Glu Glu Ala Glu Glu Glu Gln Glu Glu Asn Leu Glu Ala Ser Gly

20	25	30
Asp Tyr Lys Tyr Ser Gly Arg Asp Ser Leu Ile Phe Leu Val Asp Ala		
35	40	45
Ser Lys Ala Met Phe Glu Ser Gln Ser Glu Asp Glu Leu Thr Pro Phe		
50	55	60
Asp Met Ser Ile Gln Cys Ile Gln Ser Val Tyr Ile Ser Lys Ile Ile		
65	70	75
Ser Ser Asp Arg Asp Leu Leu Ala Val Val Phe Tyr Gly Thr Glu Lys		
85	90	95
Asp Lys Asn Ser Val Asn Phe Lys Asn Ile Tyr Val Leu Gln Glu Leu		
100	105	110
Asp Asn Pro Gly Ala Lys Arg Ile Leu Glu Leu Asp Gln Phe Lys Gly		
115	120	125
Gln Gln Gly Gln Lys Arg Phe Gln Asp Met Met Gly His Gly Ser Asp		
130	135	140
Tyr Ser Leu Ser Glu Val Leu Trp Val Cys Ala Asn Leu Phe Ser Asp		
145	150	155
Val Gln Phe Lys Met Ser His Lys Arg Ile Met Leu Phe Thr Asn Glu		
165	170	175
Asp Asn Pro His Gly Asn Asp Ser Ala Lys Ala Ser Arg Ala Arg Thr		
180	185	190
Lys Ala Gly Asp Leu Arg Asp Thr Gly Ile Phe Leu Asp Leu Met His		
195	200	205
Leu Lys Lys Pro Gly Gly Phe Asp Ile Ser Leu Phe Tyr Arg Asp Ile		
210	215	220
Ile Ser Ile Ala Glu Asp Glu Asp Leu Arg Val His Phe Glu Glu Ser		
225	230	235
Ser Lys Leu Glu Asp Leu Leu Arg Lys Val Arg Ala Lys Glu Thr Arg		
245	250	255
Lys Arg Ala Leu Ser Arg Leu Lys Leu Lys Leu Asn Lys Asp Ile Val		
260	265	270
Ile Ser Val Gly Ile Tyr Asn Leu Val Gln Lys Ala Leu Lys Pro Pro		
275	280	285
Pro Ile Lys Leu Tyr Arg Glu Thr Asn Glu Pro Val Lys Thr Lys Thr		

290	295	300
Arg Thr Phe Asn Thr Ser Thr Gly Gly Leu Leu Leu Pro Ser Asp Thr		
305	310	315 320
Lys Arg Ser Gln Ile Tyr Gly Ser Arg Gln Ile Ile Leu Glu Lys Glu		
	325	330 335
Glu Thr Glu Glu Leu Lys Arg Phe Asp Asp Pro Gly Leu Met Leu Met		
	340	345 350
Gly Phe Lys Pro Leu Val Leu Leu Lys Lys His His Tyr Leu Arg Pro		
	355	360 365
Ser Leu Phe Val Tyr Pro Glu Glu Ser Leu Val Ile Gly Ser Ser Thr		
	370	375 380
Leu Phe Ser Ala Leu Leu Ile Lys Cys Leu Glu Lys Glu Val Ala Ala		
385	390	395 400
Leu Cys Arg Tyr Thr Pro Arg Arg Asn Ile Pro Pro Tyr Phe Val Ala		
	405	410 415
Leu Val Pro Gln Glu Glu Glu Leu Asp Asp Gln Lys Ile Gln Val Thr		
	420	425 430
Pro Pro Gly Phe Gln Leu Val Phe Leu Pro Phe Ala Asp Asp Lys Arg		
	435	440 445
Lys Met Pro Phe Thr Glu Lys Ile Met Ala Thr Pro Glu Gln Val Gly		
	450	455 460
Lys Met Lys Ala Ile Val Glu Lys Leu Arg Phe Thr Tyr Arg Ser Asp		
465	470	475 480
Ser Phe Glu Asn Pro Val Leu Gln Gln His Phe Arg Asn Leu Glu Ala		
	485	490 495
Leu Ala Leu Asp Leu Met Glu Pro Glu Gln Ala Val Asp Leu Thr Leu		
	500	505 510
Pro Lys Val Glu Ala Met Asn Lys Arg Leu Gly Ser Leu Val Asp Glu		
	515	520 525
Phe Lys Glu Leu Val Tyr Pro Pro Asp Tyr Asn Pro Glu Gly Lys Val		
	530	535 540
Thr Lys Arg Lys His Asp Asn Glu Gly Ser Gly Ser Lys Arg Pro Lys		
545	550	555 560
Val Glu Tyr Ser Glu Glu Glu Leu Lys Thr His Ile Ser Lys Gly Thr		

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<400> 963
Arg Val Gln Glu Glu Asn Ala Arg Leu Lys Lys Lys Lys Glu Gln Leu
  1              5              10              15

Gln Gln Glu Ile Glu Asp Trp Ser Lys Leu His Ala Glu Leu Ser Glu
      20              25              30

Gln Ile Lys Ser Phe Glu Lys Ser Gln Lys Asp Leu Glu Val Ala Leu
      35              40              45

Thr His Lys Asp Asp Asn Ile Asn Ala Leu Thr Asn Cys Ile Thr Gln
      50              55              60

Leu Asn Leu Leu Glu Cys Glu Ser Glu Ser Glu Gly Gln Asn Lys Gly
  65              70              75              80

Gly Asn Asp Ser Asp Glu Leu Ala Asn Gly Glu Val Gly Gly Asp Arg
      85              90              95

Asn Glu Lys Met Lys Asn Gln Ile Lys Gln Met Met Asp Val Ser Arg
      100             105             110

Thr Gln Thr Ala Ile Ser Val Val Glu Glu Asp Leu Lys Leu Leu Gln
      115             120             125

Leu Lys Leu Arg Ala Ser Val Ser Thr Lys Cys Asn Leu Glu Asp Gln
      130             135             140

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Val Lys Lys Leu Glu Asp Asp Arg Asn Ser Leu Gln Ala Ala Lys Ala  
145 150 155 160

Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys Val Glu Ile Leu  
165 170 175

Asn Glu Leu Tyr Gln Gln Lys Glu Met Ala Leu Gln Lys Lys Leu Ser  
180 185 190

Gln Glu Glu Tyr Glu Arg Gln Glu Arg Glu His Arg Leu Ser Ala Ala  
195 200 205

Asp Glu Lys Ala Val Ser Ala Ala Glu Glu Val Lys Thr Tyr Lys Arg  
210 215 220

Arg Ile Glu Glu Met Glu Asp Glu Leu Gln Lys Thr Glu Arg Ser Phe  
225 230 235 240

Lys Asn Gln Ile Ala Thr His Glu Lys Lys Ala His Glu Asn Trp Leu  
245 250 255

Lys Ala Arg Ala Ala Glu Arg Ala Ile Ala Glu Glu Lys Arg Glu Ala  
260 265 270

Ala Asn Leu Arg His Lys Leu Leu Xaa Leu Thr Gln Lys Met Ala Met  
275 280 285

Leu Gln Glu Glu Pro Val Ile Val Lys Pro Met Pro Gly Lys Pro Asn  
290 295 300

Thr Gln Asn Pro Pro Arg Arg Gly Pro Leu Ser Gln Asn Val Phe Trp  
305 310 315 320

Pro Ile Pro Cys Glu Trp Trp Arg Met Leu Pro Ser Ile Asp Ser Gly  
325 330 335

Ala Thr Arg Glu Thr Ser Leu Cys Tyr Ser Gln Ser Lys Arg Tyr Ala  
340 345 350

&lt;210&gt; 964

&lt;211&gt; 553

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (549)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 964

Thr Leu Glu Ala Glu Lys Glu Arg Arg Lys Ser Gly Leu Ser Ser Arg  
1 5 10 15

Val Gln Phe Arg Asn Gln Gly Ser Glu Pro Lys Tyr Thr Gln Glu Leu  
20 25 30

Thr Leu Lys Arg Gln Lys Gln Lys Val Cys Met Glu Glu Thr Leu Trp  
35 40 45

Leu Gln Asp Asn Ile Arg Asp Lys Leu Arg Pro Ile Pro Ile Thr Ala  
50 55 60

Ser Val Glu Ile Gln Glu Pro Ser Ser Arg Arg Arg Val Asn Ser Leu  
65 70 75 80

Pro Glu Val Leu Pro Ile Leu Asn Ser Asp Glu Pro Lys Thr Ala His  
85 90 95

Ile Asp Val His Phe Leu Lys Glu Gly Cys Gly Asp Asp Asn Val Cys  
100 105 110

Asn Ser Asn Leu Lys Leu Glu Tyr Lys Phe Cys Thr Arg Glu Gly Asn  
115 120 125

Gln Asp Lys Phe Xaa Tyr Leu Pro Ile Gln Lys Gly Val Pro Glu Leu  
130 135 140

Val Leu Lys Asp Gln Lys Asp Ile Ala Leu Glu Ile Thr Val Thr Asn  
145 150 155 160

Ser Pro Ser Asn Pro Arg Asn Pro Thr Lys Asp Gly Asp Asp Ala His  
165 170 175

Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala  
180 185 190

Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala  
195 200 205

Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys  
210 215 220

Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val  
225 230 235 240

Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr  
245 250 255

Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val  
260 265 270

Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val  
275 280 285

Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp  
290 295 300

Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly  
305 310 315 320

Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro  
325 330 335

Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu  
340 345 350

Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn  
355 360 365

Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile  
370 375 380

Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu  
385 390 395 400

Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn  
405 410 415

Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu  
420 425 430

Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu  
435 440 445

Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala  
 450 455 460  
 Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr  
 465 470 475 480  
 Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp  
 485 490 495  
 Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu  
 500 505 510  
 Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp  
 515 520 525  
 His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser  
 530 535 540  
 Asp Lys Glu Arg Xaa Thr Ser Asp Ala  
 545 550

&lt;210&gt; 965

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (217)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 965

Gln Tyr Gly Arg Ile Pro Gly Ser Thr His Ala Ser Ala Glu Pro Leu  
 1 5 10 15  
 Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp Ala Ala Asn  
 20 25 30  
 Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu Asn Gln Glu  
 35 40 45  
 Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr Pro Ala Gly  
 50 55 60

His Gly Ser Ala Ser Xaa Ser Glu His Arg Ser Trp Ala Arg Glu Ser  
 65 70 75 80  
 Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu Asn Cys Val  
 85 90 95  
 Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp Ser Lys Lys  
 100 105 110  
 Lys Gly His Lys Asn Asn Val Thr Asn Ser Lys Pro Glu Phe Ser Ile  
 115 120 125  
 Ser Ser Leu Asn Gly Leu Met Tyr Ser Ser Thr Gln Pro Ser Ser Cys  
 130 135 140  
 Met Asp Asn Arg Thr Phe Ser Tyr Pro Gly Val Val Lys Thr Pro Val  
 145 150 155 160  
 Ser Pro Thr Phe Pro Glu His Leu Gly Cys Ala Gly Ser Arg Pro Glu  
 165 170 175  
 Ser Gly Leu Leu Asn Gly Cys Ser Met Pro Ser Glu Lys Gly Pro Ile  
 180 185 190  
 Lys Trp Val Ile Thr Asp Ala Glu Lys Met Ser Met Lys Ser Leu Ser  
 195 200 205  
 Arg Leu Thr Lys Pro Pro His Thr Xaa Leu His Ala  
 210 215 220

&lt;210&gt; 966

&lt;211&gt; 385

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (221)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 966

Trp Ile Pro Arg Ala Ala Gly Phe Gly Thr Arg Pro Leu Pro Gly Ala  
 1 5 10 15

Ala Gly Gly Ala Ala Gly Cys Thr Gln Arg Arg Ser Arg Glu Leu Ala  
 20 25 30

Ala Ala Ala Met Ser His Gln Thr Gly Ile Gln Ala Ser Glu Asp Val

35	40	45
Lys Glu Ile Phe Ala Arg Ala Arg Asn Gly Lys Tyr Arg Leu Leu Lys		
50	55	60
Ile Ser Ile Glu Asn Glu Gln Leu Val Ile Gly Ser Tyr Ser Gln Pro		
65	70	75 80
Ser Asp Ser Trp Asp Lys Asp Tyr Asp Ser Phe Val Leu Pro Leu Leu		
85	90	95
Glu Asp Lys Gln Pro Cys Tyr Ile Leu Phe Arg Leu Asp Ser Gln Asn		
100	105	110
Ala Gln Gly Tyr Glu Trp Ile Phe Ile Ala Trp Ser Pro Asp His Ser		
115	120	125
His Val Arg Gln Lys Met Leu Tyr Ala Ala Thr Arg Ala Thr Leu Lys		
130	135	140
Lys Glu Phe Gly Gly Gly His Ile Lys Asp Glu Val Phe Gly Thr Val		
145	150	155 160
Lys Glu Asp Val Ser Leu His Gly Tyr Lys Lys Tyr Leu Leu Ser Gln		
165	170	175
Ser Ser Pro Ala Pro Leu Thr Ala Ala Glu Glu Glu Leu Arg Gln Ile		
180	185	190
Lys Ile Asn Glu Val Gln Thr Asp Val Gly Val Asp Thr Lys His Gln		
195	200	205
Thr Leu Gln Gly Val Ala Phe Pro Ile Ser Arg Glu Xaa Phe Gln Ala		
210	215	220
Leu Glu Lys Leu Asn Asn Arg Gln Leu Asn Tyr Val Gln Leu Glu Ile		
225	230	235 240
Asp Ile Lys Asn Glu Ile Ile Ile Leu Ala Asn Thr Thr Asn Thr Glu		
245	250	255
Leu Lys Asp Leu Pro Lys Arg Ile Pro Lys Asp Ser Ala Arg Tyr His		
260	265	270
Phe Phe Leu Tyr Lys His Ser His Glu Gly Asp Tyr Leu Glu Ser Ile		
275	280	285
Val Phe Ile Tyr Ser Met Pro Gly Tyr Thr Cys Ser Ile Arg Glu Arg		
290	295	300
Met Leu Tyr Ser Ser Cys Lys Ser Arg Leu Leu Glu Ile Val Glu Arg		

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<400> 967
Arg Lys Lys Asp Lys Ser Ser Arg Pro Pro Leu Thr Pro Ser Leu Pro
  1                      5                      10                      15
Leu Ser Leu Pro Pro Gly Glu Glu Ala Arg Gly Gly Cys Ser Ala Val
      20                      25                      30
Gly Ala Ala Pro Pro Ser Pro Gly Arg Pro Gly Pro Pro Pro His Ala
      35                      40                      45
Ala Pro Met His Pro Phe Tyr Thr Arg Ala Ala Thr Met Ile Gly Glu
      50                      55                      60
Ile Ala Ala Ala Val Ser Phe Ile Ser Lys Phe Leu Arg Thr Lys Gly
  65                      70                      75                      80
Leu Thr Ser Glu Arg Gln Leu Gln Thr Phe Ser Gln Ser Leu Gln Glu
      85                      90                      95
Leu Leu Ala Glu His Tyr Lys His His Trp Phe Pro Glu Lys Pro Cys
      100                      105                      110
Lys Gly Ser Gly Tyr Arg Cys Ile Arg Ile Asn His Lys Met Asp Pro
      115                      120                      125
Leu Ile Gly Gln Ala Ala Gln Arg Ile Gly Leu Ser Ser Gln Glu Leu
      130                      135                      140

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Phe	Arg	Leu	Leu	Pro	Ser	Glu	Leu	Thr	Leu	Trp	Val	Asp	Pro	Tyr	Glu
145					150					155					160
Val	Ser	Tyr	Arg	Ile	Gly	Glu	Asp	Gly	Ser	Ile	Cys	Val	Leu	Tyr	Glu
				165					170					175	
Ala	Ser	Pro	Ala	Gly	Gly	Ser	Thr	Gln	Asn	Ser	Thr	Asn	Val	Gln	Met
			180					185					190		
Val	Asp	Ser	Arg	Ile	Ser	Cys	Lys	Glu	Glu	Leu	Leu	Leu	Gly	Arg	Thr
	195						200					205			
Ser	Pro	Ser	Lys	Asn	Tyr	Asn	Met	Met	Thr	Val	Ser	Gly			
	210					215					220				

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<210> 968
<211> 212
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 968  
Xaa Leu Thr Lys Gly Thr Lys Ala Gly Ser Ser Thr Ala Val Xaa Thr  
1 5 10 15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Phe  
20 25 30

Asp Leu Cys Cys Ser Pro Cys Arg Arg Arg Leu Leu Gly Arg Glu Glu  
35 40 45

Ala Gly Glu Glu Pro Thr Ser Pro Val Thr Gln Tyr Leu Gln Pro Arg  
50 55 60

Ser Pro Glu Glu Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr  
65 70 75 80

Pro Ser Leu Ile Arg Ala Gly Ser Arg Val Ala Tyr Arg Pro Ile Ser  
85 90 95



Ala Ser Val Leu Ser Arg Pro Glu Ala Ser Arg Thr Gly Glu Gly Ser  
100 105 110

Thr Val Phe Asn Gly Ala Gln Asn Gly Val Ser Gln Leu Ile Gln Arg  
115 120 125

Glu Phe Gln Thr Ser Ala Ile Ser Arg Asp Ile Asp Thr Ala Ala Lys  
130 135 140

Phe Ile Gly Ala Gly Ala Ala Thr Val Gly Val Ala Gly Ser Gly Ala  
145 150 155 160

Gly Ile Gly Thr Val Phe Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn  
165 170 175

Pro Ser Leu Lys Gln Gln Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala  
180 185 190

Leu Ser Glu Ala Met Gly Leu Phe Cys Leu Met Val Ala Phe Leu Ile  
195 200 205

Leu Phe Ala Met  
210

<210> 969

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 969

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Tyr Leu Asp Ala Glu Lys Met Gly Gln Lys Ala Ser Gln Gln Leu Ala
 1           5           10           15

Leu Lys Asp Ser Lys Glu Val Pro Val Val Cys Glu Val Val Ser Glu
      20           25           30

Ala Ile Val His Ala Ala Gln Lys Leu Lys Glu Tyr Leu Gly Phe Glu
      35           40           45

Tyr Pro Pro Ser Lys Leu Cys Pro Ala Ala Asn Thr Leu Asn Glu Ile
      50           55           60

Phe Leu Ile His Phe Ile Thr Phe Cys Gln Glu Lys Gly Val Asp Glu
      65           70           75           80

Trp Leu Thr Thr Thr Lys Met Thr Lys His Gln Ala Phe Leu Phe Gly
      85           90           95

Ala Asp Trp Ile Trp Thr Phe Trp Gly Ser Asp Lys Gln Ile Lys Leu
      100          105          110

Gln Leu Ala Val Gln Thr Leu Gln Met Ser Ser Pro Pro Pro Val Glu
      115          120          125

Ser Lys Pro Cys Asp Leu Ser Asn Pro Glu Ser Xaa Val Xaa Glu Ser
      130          135          140

Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu
      145          150          155          160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly
      165          170          175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln
      180          185          190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val
      195          200          205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa
      210          215          220

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&lt;210&gt; 970

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (166)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 970

Leu Gly Leu Ser Arg Val Asp Asp Ala Val Ala Ala Asn Thr Arg Gln  
 1 5 10 15

Cys Ala Gln Arg Arg Asp Arg Arg Gly Gly Glu Gly Arg Gly Gln Gly  
 20 25 30

Ile Glu Pro Ser Pro Ala Ser Ala Thr Pro Gly Thr Arg Gly Val Cys  
 35 40 45

Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe His Leu Arg His  
 50 55 60

Arg His Arg His Gly Leu Trp Leu Ala Asp Val His Ser Glu Glu Val  
 65 70 75 80

Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg Gly Cys Arg Leu  
 85 90 95

Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly Glu Met Gln Gln  
 100 105 110

Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln Arg Gln Glu His  
 115 120 125

Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His Arg Gly Leu Gly  
 130 135 140

Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro Asp Pro Arg Pro  
 145 150 155 160

Thr Leu Pro Thr Pro Xaa Gly Thr Pro Val Val Ser Ser Val Arg Met  
 165 170 175

Cys Gly Gln Ala  
 180

&lt;210&gt; 971

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 971  
Pro Arg Val Arg Pro Arg Val Leu Asp Leu Leu Cys Lys Asn Met Lys  
1 5 10 15  
His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu  
20 25 30  
Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser  
35 40 45

Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser  
50 55 60

Gly Ala Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu  
65 70 75 80

Glu Trp Ile Gly Xaa Ile Tyr Tyr Ser Gly Xaa Thr Tyr Tyr Asn Pro  
85 90 95

Ser Leu Lys Ser Leu Val Xaa Ile Ser Xaa Asp Thr Ser Lys Asn Xaa  
100 105 110

Phe Ser Leu Xaa Leu Xaa Ser Val Thr Ala Ala Asp Thr Xaa Val Tyr  
115 120 125

Tyr Cys  
130

<210> 972

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 972

Ala Gly Ser Ser Trp Lys Cys Arg Gly Cys Ser Leu Pro Xaa Leu Pro  
 1 5 10 15

Pro Pro Pro Ala Cys Ala Leu Leu Leu Pro Trp Pro Arg Thr Trp Val  
 20 25 30

Phe Pro Ser Pro Ala Xaa Gly Trp Arg Trp Leu Thr Arg Ser Arg Tyr  
 35 40 45

Pro Leu Thr Xaa Ser Arg Thr Ser Thr Arg Ser Ser Met Gly Met Ser  
 50 55 60

Leu Val Xaa Gly Pro Leu Gln Gly Xaa Leu Pro Cys Arg Arg Asp Pro  
 65 70 75 80

Arg Val Cys Pro Gly Thr Pro Ser Ser Gln Arg His Leu Pro Val Gly  
 85 90 95

Glu Val Val Lys Gln Ala Asp Val Val Leu Leu Gly Tyr Xaa Val Pro  
 100 105 110

Phe Ser Leu Ser Pro Asp Val Arg Arg Lys Asn Leu Glu Ile Tyr Glu  
 115 120 125

Ala Val Thr Ser Pro Gln Gly Pro Ala Met Thr Trp Ser Met Phe Ala  
 130 135 140

Val Gly Trp Met Glu Leu Lys Asp Ala Val Arg Ala Arg Gly Leu Leu  
 145 150 155 160

Asp Arg Ser Phe Ala Asn Met Ala Glu Pro Phe Lys Val Trp Thr Glu  
 165 170 175

Asn Ala Asp Gly Ser Gly Ala Val Asn Phe Leu Thr Gly Met Gly Gly  
 180 185 190

Phe Cys Arg Arg Trp Ser Ser Gly Ala Arg Gly Ser Gly Ser Pro Glu  
 195 200 205

Arg Val  
 210

&lt;210&gt; 973

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 973

Ser Arg Val Arg Gly Cys Ser Arg Ser Arg Gln Pro Gln Ala Arg Gly  
1 5 10 15

Gly Arg Trp Ala Arg Asp Pro Thr Leu Val Val Met Glu Ala Gly Gly  
20 25 30

Phe Leu Asp Ser Leu Ile Tyr Gly Ala Cys Val Val Phe Thr Leu Gly  
35 40 45

Met Phe Ser Ala Gly Leu Ser Asp Leu Arg His Met Arg Met Thr Arg  
50 55 60

Ser Val Asp Asn Val Gln Phe Leu Pro Phe Leu Thr Thr Glu Val Asn  
65 70 75 80

Asn Leu Gly Trp Leu Ser Tyr Gly Ala Leu Lys Gly Asp Gly Ile Leu  
85 90 95

Ile Val Val Asn Thr Val Gly Ala Ala Leu Gln Thr Leu Tyr Ile Leu  
100 105 110

Ala Tyr Leu His Tyr Cys Pro Arg Lys Arg Val Val Leu Leu Gln Thr  
115 120 125

Ala Thr Leu Leu Gly Val Leu Leu Leu Gly Tyr Gly Tyr Phe Trp Leu  
130 135 140

Leu Val Pro Asn Pro Glu Ala Arg Leu Gln Gln Leu Gly Leu Phe Cys  
145 150 155 160

Ser Val Phe Thr Ile Ser Met Tyr Leu Ser Pro Leu Ala Asp Leu Ala  
165 170 175

Lys Val Ile Gln Thr Lys Ser Thr Gln Cys Leu Ser Tyr Pro Leu Thr  
180 185 190

Ile Ala Thr Leu Leu Thr Ser Ala Ser Trp Cys Leu Tyr Gly Phe Arg  
195 200 205

Leu Arg Asp Pro Tyr Ile Met Val Ser Asn Phe Pro Gly Ile Val Thr  
210 215 220

Ser Phe Ile Arg Phe Trp Leu Phe Trp Lys Tyr Pro Gln Glu Gln Asp  
225 230 235 240

Arg Asn Tyr Trp Leu Leu Gln Thr  
245

<210> 974  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 974  
 Ser Xaa Leu Pro Phe Ile Lys Gly Asn Xaa Ser Trp Ser Phe His Arg  
   1                  5                  10                  15  
 Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe  
                   20                  25                  30  
 Gly Thr Arg Arg Glu Leu Val Ser Arg Arg Ala Gln Arg Thr Ala Thr  
           35                  40                  45  
 Asp Ser Pro Gly His Pro Pro Thr Ala His Gly Xaa Gln Gln Ser Arg  
   50                  55                  60  
 Lys Ala Arg Pro Gly Gln Arg Lys Pro Ser Arg Ala Gly Trp Arg Leu  
   65                  70                  75                  80  
 Arg Ala Ala Ala Pro Thr Gly Gln Arg Pro Pro His Val Pro Ala Pro  
                   85                  90                  95  
 Thr Pro Arg Pro Ser Gly Gln His Glu Ala Pro Gly Gly Arg Ala Ala  
           100                  105                  110  
 Pro Ala Ala Ala Gly Ala Val His Arg Ala Cys Gly Arg Val Gln Met  
   115                  120                  125  
 Gln Val Leu Pro Glu Gly Pro Lys Ile Arg Tyr Ser Asp Val Lys Lys  
   130                  135                  140



Leu Glu Met Lys Pro Lys Tyr Pro His Cys Glu Glu Lys Met Val Ile  
 145 150 155 160

Ile Thr Thr Lys Ser Val Ser Arg Tyr Arg Gly Gln Glu His Cys Leu  
 165 170 175

His Pro Lys Leu Gln Ser Thr Lys Arg Phe Ile Lys Trp Tyr Asn Ala  
 180 185 190

Trp Asn Glu Lys Arg Arg Val Tyr Glu Glu  
 195 200

<210> 975

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 975

Leu Cys Leu Pro Phe Pro Thr Gly Glu Thr Pro Ser Leu Gly Phe Thr  
 1 5 10 15

Val Thr Leu Val Leu Leu Asn Ser Leu Ala Phe Leu Leu Met Ala Val  
 20 25 30

Ile Tyr Thr Lys Leu Tyr Cys Asn Leu Glu Lys Glu Asp Leu Ser Glu  
 35 40 45

Asn Ser Gln Ser Ser Met Ile Lys His Val Ala Trp Leu Ile Phe Thr  
 50 55 60

Asn Cys Ile Phe Phe Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu  
 65 70 75 80

Ile Thr Ala Ile Ser Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu  
 85 90 95

Ile Phe Phe Pro Leu Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe  
 100 105 110

Phe Asn Pro Lys Phe Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val  
 115 120 125

Thr Lys Lys Ser Gly Ser Val Ser Val Ser Ile Ser Ser Gln Gly Gly  
 130 135 140

Cys Leu Glu Gln Asp Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu  
 145 150 155 160

Gln Gly Asn Leu Thr Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr  
 165 170 175

Lys Pro Val Ser Cys Lys His Leu Ile Lys Ser His Ser Cys Pro Ala  
 180 185 190

Leu Ala Val Ala Ser Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys  
 195 200 205

Gly Thr Gln Xaa Ala His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe  
 210 215 220

Val Ser Asp Ser Ser Asp Gln Val Gln Ala Cys Gly Arg Ala Cys Phe  
 225 230 235 240

Tyr Gln Ser Arg Gly Phe Pro Leu Val Arg Tyr Ala Tyr Asn Leu Pro  
 245 250 255

Arg Val Lys Asp  
 260

<210> 976

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

Arg Ser Arg Lys Gln Glu Ala Ala Cys Xaa Pro Gln Asp Leu Pro Gly  
 1 5 10 15

Trp Gly Asn Trp Arg Leu Leu Gly Gly Gly Thr Val His Ala Lys Met  
 20 25 30

Ala Val Ser Thr Glu Glu Leu Glu Ala Thr Val Gln Glu Val Leu Gly  
 35 40 45

Arg Leu Lys Ser His Gln Phe Phe Gln Ser Thr Trp Asp Thr Val Ala  
 50 55 60

Phe Ile Val Phe Leu Thr Phe Met Gly Thr Val Leu Leu Leu Leu

65                      70                      75                      80  
 Leu Val Val Ala His Cys Cys Cys Cys Ser Ser Pro Gly Pro Arg Arg  
                                  85                      90                      95  
 Glu Ser Pro Arg Lys Glu Arg Pro Lys Gly Val Asp Asn Leu Ala Leu  
                                  100                      105                      110  
 Glu Pro

<210> 977  
 <211> 413  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 977  
 Thr Pro Pro Thr His Gly Pro Thr Ala Asp Gln Pro Met Arg Pro Val  
   1                      5                      10                      15

Arg Val Pro Glu Arg Gly Pro Val His Arg Gly Ala Ala Gly Ala His  
                                  20                      25                      30

Leu Pro Leu Pro Thr Arg Leu Arg Arg Pro Gln Met Arg Glu Ala His  
                                  35                      40                      45

His Cys Gln Leu Arg Gly Gln Arg Leu Xaa Arg Gly Thr Gly Leu Arg  
                                  50                      55                      60

Gln Gly Pro Thr Pro Gly Gln His Leu Pro Xaa Gly Gly Pro Asp Lys  
   65                      70                      75                      80

Asp Asn Gly Ile Leu Leu Tyr Lys Gly Asp Asn Asp Pro Leu Ala Leu  
                                  85                      90                      95

Glu Leu Tyr Gln Gly His Val Arg Leu Val Tyr Asp Ser Leu Ser Ser  
 100 105 110  
 Pro Pro Thr Thr Val Tyr Ser Val Glu Thr Val Asn Xaa Gly Gln Phe  
 115 120 125  
 His Ser Val Glu Leu Val Thr Leu Asn Gln Thr Leu Asn Leu Val Val  
 130 135 140  
 Asp Lys Gly Thr Pro Lys Ser Leu Gly Lys Leu Gln Lys Gln Pro Ala  
 145 150 155 160  
 Val Gly Ile Asn Ser Pro Leu Tyr Leu Gly Gly Ile Pro Thr Ser Thr  
 165 170 175  
 Gly Leu Ser Ala Leu Arg Gln Gly Thr Asp Arg Pro Leu Gly Gly Phe  
 180 185 190  
 His Gly Cys Ile His Glu Val Arg Ile Asn Asn Glu Leu Gln Asp Phe  
 195 200 205  
 Lys Ala Leu Pro Pro Gln Ser Leu Gly Val Ser Pro Gly Cys Lys Ser  
 210 215 220  
 Cys Thr Val Cys Lys His Gly Leu Cys Arg Ser Val Glu Lys Asp Ser  
 225 230 235 240  
 Val Val Cys Glu Cys Arg Pro Gly Trp Thr Gly Pro Leu Cys Asp Gln  
 245 250 255  
 Glu Ala Arg Asp Pro Cys Leu Gly His Arg Cys His His Gly Lys Cys  
 260 265 270  
 Val Ala Thr Gly Thr Ser Tyr Met Cys Lys Cys Ala Glu Gly Tyr Gly  
 275 280 285  
 Gly Asp Leu Cys Asp Asn Lys Asn Asp Ser Ala Asn Ala Cys Ser Ala  
 290 295 300  
 Phe Lys Cys His His Gly Gln Cys His Ile Ser Asp Gln Gly Glu Pro  
 305 310 315 320  
 Tyr Cys Leu Cys Gln Pro Gly Phe Ser Gly Glu His Cys Gln Gln Glu  
 325 330 335  
 Asn Pro Cys Leu Gly Gln Val Val Arg Glu Val Ile Arg Arg Gln Lys  
 340 345 350  
 Gly Tyr Ala Ser Cys Ala Thr Ala Ser Lys Val Pro Ile Met Glu Cys  
 355 360 365

Arg Gly Gly Cys Gly Pro Gln Cys Cys Gln Pro Thr Arg Ser Lys Arg  
370 375 380

Arg Lys Tyr Val Phe Gln Cys Thr Asp Gly Ser Ser Phe Val Glu Glu  
385 390 395 400

Val Glu Arg His Leu Glu Cys Gly Cys Leu Ala Cys Ser  
405 410

<210> 978

<211> 271

<212> PRT

<213> Homo sapiens

<400> 978

Thr Gln Arg Met Ser Gly Lys His Tyr Lys Gly Pro Glu Val Ser Cys  
1 5 10 15

Cys Ile Lys Tyr Phe Ile Phe Gly Phe Asn Val Ile Phe Trp Phe Leu  
20 25 30

Gly Ile Thr Phe Leu Gly Ile Gly Leu Trp Ala Trp Asn Glu Lys Gly  
35 40 45

Val Leu Ser Asn Ile Ser Ser Ile Thr Asp Leu Gly Gly Phe Asp Pro  
50 55 60

Val Trp Leu Phe Leu Val Val Gly Gly Val Met Phe Ile Leu Gly Phe  
65 70 75 80

Ala Gly Cys Ile Gly Ala Leu Arg Glu Asn Thr Phe Leu Leu Lys Phe  
85 90 95

Phe Ser Val Phe Leu Gly Ile Ile Phe Phe Leu Glu Leu Thr Ala Gly  
100 105 110

Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln Leu Tyr Phe  
115 120 125

Phe Ile Asn Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile Asp Leu Gln  
130 135 140

Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys Gly Ala Phe  
145 150 155 160

Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys Thr Asp Ser  
165 170 175

Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys Cys Thr Lys  
180 185 190

Asp Pro Ala Glu Asp Val Ile Asn Thr Gln Cys Gly Tyr Asp Ala Arg  
195 200 205

Gln Lys Pro Glu Val Asp Gln Gln Ile Val Ile Tyr Thr Lys Gly Cys  
210 215 220

Val Pro Gln Phe Glu Lys Trp Leu Gln Asp Asn Leu Thr Ile Val Ala  
225 230 235 240

Gly Ile Phe Ile Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu  
245 250 255

Ala Gln Asn Leu Val Ser Asp Ile Glu Ala Val Arg Ala Ser Trp  
260 265 270

<210> 979

<211> 674

<212> PRT

<213> Homo sapiens

<400> 979

Pro Gly Arg Thr Gly Ala Ala Gly Pro Ala Gly Pro Ala Gly Pro Arg  
1 5 10 15

Gly Ser Pro Gly Glu Arg Gly Glu Val Gly Pro Ala Gly Pro Asn Gly  
20 25 30

Phe Ala Gly Pro Ala Gly Ala Ala Gly Gln Pro Gly Ala Lys Gly Glu  
35 40 45

Arg Gly Ala Lys Gly Pro Lys Gly Glu Asn Gly Val Val Gly Pro Thr  
50 55 60

Gly Pro Val Gly Ala Ala Gly Pro Ala Gly Pro Asn Gly Pro Pro Gly  
65 70 75 80

Pro Ala Gly Ser Arg Gly Asp Gly Gly Pro Pro Gly Met Thr Gly Phe  
85 90 95

Pro Gly Ala Ala Gly Arg Thr Gly Pro Pro Gly Pro Ser Gly Ile Ser  
100 105 110

Gly Pro Pro Gly Pro Pro Gly Pro Ala Gly Lys Glu Gly Leu Arg Gly  
115 120 125

Pro Arg Gly Asp Gln Gly Pro Val Gly Arg Thr Gly Glu Val Gly Ala

130	135	140
Val Gly Pro Pro Gly Phe Ala Gly Glu Lys Gly Pro Ser Gly Glu Ala		
145	150	155 160
Gly Thr Ala Gly Pro Pro Gly Thr Pro Gly Pro Gln Gly Leu Leu Gly		
	165	170 175
Ala Pro Gly Ile Leu Gly Leu Pro Gly Ser Arg Gly Glu Arg Gly Leu		
	180	185 190
Pro Gly Val Ala Gly Ala Val Gly Glu Pro Gly Pro Leu Gly Ile Ala		
	195	200 205
Gly Pro Pro Gly Ala Arg Gly Pro Pro Gly Ala Val Gly Ser Pro Gly		
	210	215 220
Val Asn Gly Ala Pro Gly Glu Ala Gly Arg Asp Gly Asn Pro Gly Asn		
	225	230 235 240
Asp Gly Pro Pro Gly Arg Asp Gly Gln Pro Gly His Lys Gly Glu Arg		
	245	250 255
Gly Tyr Pro Gly Asn Ile Gly Pro Val Gly Ala Ala Gly Ala Pro Gly		
	260	265 270
Pro His Gly Pro Val Gly Pro Ala Gly Lys His Gly Asn Arg Gly Glu		
	275	280 285
Thr Gly Pro Ser Gly Pro Val Gly Pro Ala Gly Ala Val Gly Pro Arg		
	290	295 300
Gly Pro Ser Gly Pro Gln Gly Ile Arg Gly Asp Lys Gly Glu Pro Gly		
	305	310 315 320
Glu Lys Gly Pro Arg Gly Leu Pro Gly Leu Lys Gly His Asn Gly Leu		
	325	330 335
Gln Gly Leu Pro Gly Ile Ala Gly His His Gly Asp Gln Gly Ala Pro		
	340	345 350
Gly Ser Val Gly Pro Ala Gly Pro Arg Gly Pro Ala Gly Pro Ser Gly		
	355	360 365
Pro Ala Gly Lys Asp Gly Arg Thr Gly His Pro Gly Thr Val Gly Pro		
	370	375 380
Ala Gly Ile Arg Gly Pro Gln Gly His Gln Gly Pro Ala Gly Pro Pro		
	385	390 395 400
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Val Ser Gly Gly Gly Tyr		

405	410	415
Asp Phe Gly Tyr Asp Gly Asp Phe Tyr Arg Ala Asp Gln Pro Arg Ser		
420	425	430
Ala Pro Ser Leu Arg Pro Lys Asp Tyr Glu Val Asp Ala Thr Leu Lys		
435	440	445
Ser Leu Asn Asn Gln Ile Glu Thr Leu Leu Thr Pro Glu Gly Ser Arg		
450	455	460
Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu Arg Leu Ser His Pro Glu		
465	470	475
Trp Ser Ser Gly Tyr Tyr Trp Ile Asp Pro Asn Gln Gly Cys Thr Met		
485	490	495
Asp Ala Ile Lys Val Tyr Cys Asp Phe Ser Thr Gly Glu Thr Cys Ile		
500	505	510
Arg Ala Gln Pro Glu Asn Ile Pro Ala Lys Asn Trp Tyr Arg Ser Ser		
515	520	525
Lys Asp Lys Lys His Val Trp Leu Gly Glu Thr Ile Asn Ala Gly Ser		
530	535	540
Gln Phe Glu Tyr Asn Val Glu Gly Val Thr Ser Lys Glu Met Ala Thr		
545	550	555
Gln Leu Ala Phe Met Arg Leu Leu Ala Asn Tyr Ala Ser Gln Asn Ile		
565	570	575
Thr Tyr His Cys Lys Asn Ser Ile Ala Tyr Met Asp Glu Glu Thr Gly		
580	585	590
Asn Leu Lys Lys Ala Val Ile Leu Gln Gly Ser Asn Asp Val Glu Leu		
595	600	605
Val Ala Glu Gly Asn Ser Arg Phe Thr Tyr Thr Val Leu Val Asp Gly		
610	615	620
Cys Ser Lys Lys Thr Asn Glu Trp Gly Lys Thr Ile Ile Glu Tyr Lys		
625	630	635
Thr Asn Lys Pro Ser Arg Leu Pro Phe Leu Asp Ile Ala Pro Leu Asp		
645	650	655
Ile Gly Gly Ala Asp Gln Glu Phe Phe Val Asp Ile Gly Pro Val Cys		
660	665	670
Phe Lys		



<210> 980  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 980

Cys Pro Leu Cys Ser Ala Ala Gly Ser Arg Arg Thr Ala Gly Arg Met  
1 5 10 15  
Thr Gln Asn Thr Val Ile Val Asn Gly Val Ala Met Ala Ser Arg Pro  
20 25 30  
Ser Gln Pro Thr His Val Asn Val His Ile His Gln Glu Ser Ala Leu  
35 40 45  
Thr Gln Leu Leu Lys Ala Gly Gly Ser Leu Lys Lys Phe Leu Phe His  
50 55 60  
Pro Gly Asp Thr Val Pro Ser Thr Ala Arg Ile Gly Tyr Glu Gln Leu  
65 70 75 80  
Ala Leu Gly Val Thr Gln Ile Leu Leu Gly Val Val Ser Cys Val Leu  
85 90 95  
Gly Val Cys Leu Ser Leu Gly Pro Trp Thr Val Leu Ser Ala Ser Ala  
100 105 110  
Val Pro Ser Gly Arg Gly Leu Trp  
115 120

<210> 981  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 981

Ile Pro Gly Ser Tyr Leu Arg Ile Val Tyr Lys Thr Thr Cys Asn Pro  
1 5 10 15  
Phe Met Lys Asn Val Phe Lys Tyr Cys Phe Leu Leu Leu Cys Ser Ala  
20 25 30  
Leu Ser Leu Val Leu Pro Leu Ser Pro Glu Cys Ser Ile Ile Tyr Arg  
35 40 45

Leu Tyr Ile Thr Thr Ser Ile Ala Phe Gly Gly Lys Ser Arg Phe Ser  
50 55 60

Cys Asn Phe Pro Ala Val Lys Met Leu Pro Cys Ile  
65 70 75

<210> 982

<211> 208

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 982

Xaa	Ser	Phe	Xaa	Thr	Gln	Pro	Ser	Xaa	Ser	Thr	Thr	Thr	Ser	Pro	Leu
1				5					10					15	
Trp	Ala	Asn	Thr	Val	Thr	Leu	Ala	Gly	Gly	Lys	Leu	His	Ser	Lys	Gly
		20						25					30		
Leu	Lys	Tyr	Phe	His	His	Phe	Thr	Leu	Ser	Leu	Cys	Gly	Asn	Gln	Gly
	35						40					45			
Arg	Lys	Met	Ser	Val	Cys	Thr	Asp	Asn	Val	Thr	Asp	Leu	Arg	Ile	Pro
	50					55					60				
Glu	Gly	Glu	Ser	Gly	Phe	Ser	Lys	Ser	Ile	Thr	Ala	Tyr	Val	Cys	Gln
65				70					75					80	
Ala	Val	Ile	Ile	Pro	Pro	Glu	Val	Thr	Gly	Tyr	Lys	Ala	Gly	Val	Ser
				85					90					95	
Ser	Gln	Pro	Val	Ser	Leu	Ala	Asp	Arg	Leu	Ile	Gly	Val	Thr	Thr	Asp
		100						105					110		
Met	Thr	Leu	Asp	Gly	Ile	Thr	Ser	Pro	Ala	Glu	Leu	Phe	His	Leu	Glu
	115					120						125			
Ser	Leu	Gly	Ile	Pro	Asp	Val	Ile	Phe	Phe	Tyr	Arg	Ser	Asn	Asp	Val
	130					135					140				
Thr	Gln	Ser	Cys	Ser	Ser	Gly	Arg	Ser	Thr	Thr	Ile	Arg	Val	Arg	Cys
145					150					155				160	
Ser	Pro	Gln	Lys	Thr	Val	Pro	Gly	Ser	Leu	Leu	Leu	Pro	Gly	Thr	Cys
			165						170					175	
Ser	Asp	Gly	Xaa	Cys	Asp	Gly	Cys	Asn	Phe	His	Phe	Leu	Trp	Glu	Xaa
		180						185					190		
Xaa	Xaa	Xaa	Ala	Arg	Ser	Ala	Xaa	Trp	Leu	Thr	Thr	Met	Leu	Ser	Ser
		195					200						205		

<210> 983  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (259)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (260)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 983  
 Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr  
   1                  5                  10                  15  
 Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val  
                   20                  25                  30  
 Leu His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu  
                   35                  40                  45  
 Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu Ala  
                   50                  55                  60  
 Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala Trp Phe  
   65                  70                  75                  80  
 Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Xaa Xaa Val Leu Arg Lys  
                   85                  90                  95  
 Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys Gly Val Ile Leu  
                   100                  105                  110  
 Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu Asp Gln His  
                   115                  120                  125

Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro  
130 135 140

Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asp Leu Ile Asn Lys Met  
145 150 155 160

Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Ser Glu Ala Leu Lys  
165 170 175

His Pro Trp Ile Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg  
180 185 190

Gln Glu Thr Val Asp Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu  
195 200 205

Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala  
210 215 220

Ala Lys Ser Leu Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr Glu  
225 230 235 240

Ser Ser Asn Thr Thr Ile Glu Asp Glu Phe Ser Leu Asp Leu Thr Arg  
245 250 255

Leu Thr Xaa Xaa Gly  
260

&lt;210&gt; 984

&lt;211&gt; 283

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (268)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 984

Ser Thr His Ala Ser Gly Arg Met Ala Ala Glu Gly Trp Ile Trp Arg  
1 5 10 15

Trp Gly Trp Gly Arg Arg Cys Leu Gly Arg Pro Gly Leu Leu Gly Pro  
20 25 30

Gly Pro Gly Pro Thr Thr Pro Leu Phe Leu Leu Leu Leu Leu Gly Ser  
                   35                                  40                                  45  
 Val Thr Ala Asp Ile Thr Asp Gly Asn Ser Glu His Leu Lys Arg Glu  
           50                                  55                                  60  
 His Ser Leu Ile Lys Pro Tyr Gln Gly Val Gly Ser Ser Ser Met Pro  
   65                                  70                                  75                                  80  
 Leu Trp Asp Phe Gln Gly Ser Thr Met Leu Thr Ser Gln Tyr Val Arg  
                                   85                                  90                                  95  
 Leu Thr Pro Asp Glu Arg Xaa Lys Glu Gly Ser Ile Trp Asn His Gln  
                   100                                  105                                  110  
 Pro Cys Phe Leu Lys Asp Trp Glu Met His Val His Phe Lys Val His  
           115                                  120                                  125  
 Gly Thr Gly Lys Lys Asn Leu His Gly Asp Gly Ile Ala Leu Trp Tyr  
           130                                  135                                  140  
 Thr Arg Asp Arg Leu Val Pro Gly Pro Val Phe Gly Ser Lys Asp Asn  
   145                                  150                                  155                                  160  
 Phe His Gly Leu Ala Ile Phe Leu Asp Thr Tyr Pro Asn Asp Glu Thr  
                                   165                                  170                                  175  
 Thr Glu Arg Val Phe Pro Tyr Ile Ser Val Met Val Asn Asn Gly Ser  
                   180                                  185                                  190  
 Leu Ser Tyr Asp His Ser Lys Asp Gly Arg Trp Thr Glu Leu Ala Gly  
           195                                  200                                  205  
 Cys Thr Ala Asp Phe Arg Asn Arg Asp His Asp Thr Phe Leu Ala Val  
   210                                  215                                  220  
 Arg Tyr Ser Arg Gly Arg Leu Thr Val Met Thr Asp Leu Glu Asp Lys  
   225                                  230                                  235                                  240  
 Asn Glu Trp Lys Asn Cys Ile Asp Ile Thr Gly Val Arg Leu Pro Thr  
                                   245                                  250                                  255  
 Gly Tyr Tyr Phe Gly Ala Ser Ala Gly Thr Gly Xaa Leu Ser Asp Asn  
           260                                  265                                  270  
 His Asp Ile Ile Ser Met Lys Ala Val Pro Ser  
           275                                  280

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 985

Ala Arg Gly Arg Ala Glu Val Leu Gly Arg Ala Val Glu Pro Pro Pro  
1 5 10 15

Gly Arg Cys Trp Ser Thr Pro Pro Val Ala Pro Pro Ala Arg Ser Ala  
20 25 30

Ser Ala Ala Ala Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp  
35 40 45

Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr  
50 55 60

Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn  
65 70 75 80

Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp  
85 90 95

Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr  
100 105 110

Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile  
115 120 125

Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu  
130 135 140

&lt;210&gt; 986

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 986

Ile Phe Val Cys Leu Cys Val Cys Leu Ser Cys Val Ile Leu Leu Gly  
1 5 10 15

Ala Ser Ala Asn Ser Leu Thr Val Val Pro Ser Leu Thr Leu Pro Val  
20 25 30

His His Leu Arg Arg Leu Asp Pro Ser Leu Thr Ser Pro Phe Leu Lys  
35 40 45

Pro Val Ser Phe Ser Leu Leu Pro Asn Trp Leu Trp Leu Phe Leu Gln  
50 55 60

Pro Phe His Ser Arg Ala Ile Phe Ala Lys Glu  
65 70 75

<210> 987

<211> 332

<212> PRT

<213> Homo sapiens

<400> 987

Arg Thr Arg Gly Arg Thr Arg Gly Arg Thr Arg Gly Arg Val Ala Trp  
1 5 10 15

Trp Leu Arg Leu Ser Val Arg Pro Pro Ala Gly Ala Ile Met Ala Asp  
20 25 30

Ala Ala Ser Gln Val Leu Leu Gly Ser Gly Leu Thr Ile Leu Ser Gln  
35 40 45

Pro Leu Met Tyr Val Lys Val Leu Ile Gln Val Gly Tyr Glu Pro Leu  
50 55 60

Pro Pro Thr Ile Gly Arg Asn Ile Phe Gly Arg Gln Val Cys Gln Leu  
65 70 75 80

Pro Gly Leu Phe Ser Tyr Ala Gln His Ile Ala Ser Ile Asp Gly Arg  
85 90 95

Arg Gly Leu Phe Thr Gly Leu Thr Pro Arg Leu Cys Ser Gly Val Leu  
100 105 110

Gly Thr Val Val His Gly Lys Val Leu Gln His Tyr Gln Glu Ser Asp  
115 120 125

Lys Gly Glu Glu Leu Gly Pro Gly Asn Val Gln Lys Glu Val Ser Ser  
130 135 140

Ser Phe Asp His Val Ile Lys Glu Thr Thr Arg Glu Met Ile Ala Arg  
145 150 155 160

Ser Ala Ala Thr Leu Ile Thr His Pro Phe His Val Ile Thr Leu Arg  
165 170 175

Ser Met Val Gln Phe Ile Gly Arg Glu Ser Lys Tyr Cys Gly Leu Cys  
180 185 190



Asp Ser Ile Ile Thr Ile Tyr Arg Glu Glu Gly Ile Leu Gly Phe Phe  
195 200 205

Ala Gly Leu Val Pro Arg Leu Leu Gly Asp Ile Leu Ser Leu Trp Leu  
210 215 220

Cys Asn Ser Leu Ala Tyr Leu Val Asn Thr Tyr Ala Leu Asp Ser Gly  
225 230 235 240

Val Ser Thr Met Asn Glu Met Lys Ser Tyr Ser Gln Ala Val Thr Gly  
245 250 255

Phe Phe Ala Ser Met Leu Thr Tyr Pro Phe Val Leu Val Ser Asn Leu  
260 265 270

Met Ala Val Asn Asn Cys Gly Leu Ala Gly Gly Cys Pro Pro Tyr Ser  
275 280 285

Pro Ile Tyr Thr Ser Trp Ile Asp Cys Trp Cys Met Leu Gln Lys Glu  
290 295 300

Gly Asn Met Ser Arg Gly Asn Ser Leu Phe Phe Arg Lys Val Pro Phe  
305 310 315 320

Gly Lys Thr Tyr Cys Cys Asp Leu Lys Met Leu Ile  
325 330

&lt;210&gt; 988

&lt;211&gt; 909

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (632)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (851)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 988

Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly  
1 5 10 15

Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Xaa  
20 25 30

Lys Ala Glu Gly Ala Gln Asn Gln Xaa Lys Lys Ala Glu Gly Xaa Xaa  
35 40 45

Asn Gln Gly Xaa Lys Ala Glu Gly Ala Xaa Asn Gln Gly Xaa Lys Ala  
50 55 60

Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln  
65 70 75 80

Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly  
85 90 95

Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys  
 100 105 110  
 Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Val Xaa Gly Ala Gln  
 115 120 125  
 Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala  
 130 135 140  
 Glu Gly Ala Gln Asn Gln Gly Lys Lys Ala Glu Gly Ala Gln Asn Gln  
 145 150 155 160  
 Gly Gln Lys Gly Glu Gly Ala Gln Asn Gln Gly Lys Lys Thr Glu Gly  
 165 170 175  
 Ala Gln Gly Lys Lys Ala Glu Arg Ser Pro Asn Gln Gly Lys Lys Gly  
 180 185 190  
 Glu Gly Ala Pro Ile Gln Gly Lys Lys Ala Asp Ser Val Ala Asn Gln  
 195 200 205  
 Gly Thr Lys Val Glu Gly Ile Thr Asn Gln Gly Lys Lys Ala Glu Gly  
 210 215 220  
 Ser Pro Ser Glu Gly Lys Lys Ala Glu Gly Ser Pro Asn Gln Gly Lys  
 225 230 235 240  
 Lys Ala Asp Ala Ala Ala Asn Gln Gly Lys Lys Thr Glu Ser Ala Ser  
 245 250 255  
 Val Gln Gly Arg Asn Thr Asp Val Ala Gln Ser Pro Glu Ala Pro Lys  
 260 265 270  
 Gln Glu Ala Pro Ala Lys Lys Lys Ser Gly Ser Lys Lys Lys Gly Glu  
 275 280 285  
 Pro Gly Pro Pro Asp Ala Asp Gly Pro Leu Tyr Leu Pro Tyr Lys Thr  
 290 295 300  
 Leu Val Ser Thr Val Gly Ser Met Val Phe Asn Glu Gly Glu Ala Gln  
 305 310 315 320  
 Arg Leu Ile Glu Ile Leu Ser Glu Lys Ala Gly Ile Ile Gln Asp Thr  
 325 330 335  
 Trp His Lys Ala Thr Gln Lys Gly Asp Pro Val Ala Ile Leu Lys Arg  
 340 345 350  
 Gln Leu Glu Glu Lys Glu Lys Leu Leu Ala Thr Glu Gln Glu Asp Ala  
 355 360 365

Ala Val Ala Lys Ser Lys Leu Arg Glu Leu Asn Lys Glu Met Ala Ala  
370 375 380

Glu Lys Ala Lys Ala Ala Ala Gly Glu Ala Lys Val Lys Lys Gln Leu  
385 390 395 400

Val Ala Arg Glu Gln Glu Ile Thr Ala Val Gln Ala Arg Met Gln Ala  
405 410 415

Ser Tyr Arg Glu His Val Lys Glu Val Gln Gln Leu Gln Gly Lys Ile  
420 425 430

Arg Thr Leu Gln Glu Gln Leu Glu Asn Gly Pro Asn Thr Gln Leu Ala  
435 440 445

Arg Leu Gln Gln Glu Asn Ser Ile Leu Arg Asp Ala Leu Asn Gln Ala  
450 455 460

Thr Ser Gln Val Glu Ser Lys Gln Asn Ala Glu Leu Ala Lys Leu Arg  
465 470 475 480

Gln Glu Leu Ser Lys Val Ser Lys Glu Leu Val Glu Lys Ser Glu Ala  
485 490 495

Val Arg Gln Asp Glu Gln Gln Arg Lys Ala Leu Glu Ala Lys Ala Ala  
500 505 510

Ala Phe Glu Lys Gln Val Leu Gln Leu Gln Ala Ser His Arg Glu Ser  
515 520 525

Glu Glu Ala Leu Gln Lys Arg Leu Asp Glu Val Ser Arg Glu Leu Cys  
530 535 540

His Thr Gln Ser Ser His Ala Ser Leu Arg Ala Asp Ala Glu Lys Ala  
545 550 555 560

Gln Glu Gln Gln Gln Gln Met Ala Glu Leu His Ser Lys Leu Gln Ser  
565 570 575

Ser Glu Ala Glu Val Arg Ser Lys Cys Glu Glu Leu Ser Gly Leu His  
580 585 590

Gly Gln Leu Gln Glu Ala Arg Ala Glu Asn Ser Gln Leu Thr Glu Arg  
595 600 605

Ile Arg Ser Ile Glu Ala Leu Leu Glu Ala Gly Gln Ala Arg Asp Ala  
610 615 620

Gln Asp Val Gln Ala Ser Gln Xaa Glu Ala Asp Gln Gln Gln Thr Arg  
625 630 635 640

Leu Lys Glu Leu Glu Ser Gln Val Ser Gly Leu Glu Lys Glu Ala Ile  
645 650 655

Glu Leu Arg Glu Ala Val Glu Gln Gln Lys Val Lys Asn Asn Asp Leu  
660 665 670

Arg Glu Lys Asn Trp Lys Ala Met Glu Ala Leu Ala Thr Ala Glu Gln  
675 680 685

Ala Cys Lys Glu Lys Leu His Ser Leu Thr Gln Ala Lys Glu Glu Ser  
690 695 700

Glu Lys Gln Leu Cys Leu Ile Glu Ala Gln Thr Met Glu Ala Leu Leu  
705 710 715 720

Ala Leu Leu Pro Glu Leu Ser Val Leu Ala Gln Gln Asn Tyr Thr Glu  
725 730 735

Trp Leu Gln Asp Leu Lys Glu Lys Gly Pro Thr Leu Leu Lys His Pro  
740 745 750

Pro Ala Pro Ala Glu Pro Ser Ser Asp Leu Ala Ser Lys Leu Arg Glu  
755 760 765

Ala Glu Glu Thr Gln Ser Thr Leu Gln Ala Glu Cys Asp Gln Tyr Arg  
770 775 780

Ser Ile Leu Ala Glu Thr Glu Gly Met Leu Arg Asp Leu Gln Lys Ser  
785 790 795 800

Val Glu Glu Glu Glu Gln Val Trp Arg Ala Lys Val Gly Ala Ala Glu  
805 810 815

Glu Glu Leu Gln Lys Ser Arg Val Thr Val Lys His Leu Glu Glu Ile  
820 825 830

Val Glu Lys Leu Lys Gly Glu Leu Glu Ser Ser Asp Gln Val Arg Glu  
835 840 845

His Thr Xaa His Leu Glu Ala Glu Leu Glu Lys His Met Ala Ala Ala  
850 855 860

Ser Ala Glu Cys Gln Asn Tyr Ala Lys Glu Val Ala Gly Leu Arg Gln  
865 870 875 880

Leu Leu Leu Glu Ser Gln Ser Gln Leu Asp Ala Ala Lys Ser Glu Ala  
885 890 895

Arg Asn Arg Ala Met Ser Leu Pro Trp Ser Gly Ser Ser  
900 905

&lt;210&gt; 989

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr  
1 5 10 15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys  
20 25 30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp  
35 40 45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly  
50 55 60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val  
65 70 75 80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly  
85 90 95

Cys Thr Leu Phe  
100

&lt;210&gt; 990

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 990

Leu Arg Ile Glu Tyr Ile Asp Asn Gly Cys Val Ile Asn Gly His Leu  
1 5 10 15

Asp Phe Pro Ser Thr Thr Pro Leu Ser Gly Met Glu Ser Arg Asn Gly  
20 25 30

Gln Cys Leu Thr Gly Thr Asn Gly Ile Ser Ser Gly Leu Ala Pro Gly  
35 40 45

Gln Pro Phe Pro Ser Ser Gln Gly Ser Leu Cys Ile Ser Gly Thr Glu  
50 55 60

Glu Pro Glu Lys Thr Leu Arg Ala Asn Pro Glu Leu Cys Gly Ser Leu

65                      70                      75                      80  
 His Leu Asn Gly Ser Pro Ser Ser Cys Ile Ala Ser Arg Pro Ser Trp  
                                  85                                   90                                   95  
 Val Glu Asp Ile Gly Asp Asn Leu Tyr Tyr Gly His Tyr His Gly Phe  
                                  100                                   105                                   110  
 Gly Asp Thr Ala Glu Ser Met Pro Arg Thr Glu Gln Cys Gly Arg Ala  
                                  115                                   120                                   125  
 Phe Gln Val Arg Glu Gly Ala Gly Ala Val Arg Gln Cys Arg Ala Gly  
                                  130                                   135                                   140  
 His His Ala Pro Ala Pro Arg Leu Leu Glu Thr Leu Thr Trp Leu Ser  
 145                                   150                                   155                                   160  
 Glu Thr Gln Glu Ser Phe Leu Val Ala Ser Ser Glu Tyr Pro Cys Ser  
                                  165                                   170                                   175  
 Ser Asn Leu Asn Glu Cys His Asn Leu Tyr Phe Phe Tyr Ile Leu Gln  
                                  180                                   185                                   190  
 Leu Ser Glu Lys Val Asn Phe Asp Lys Phe Pro Ala Thr Ala Cys Leu  
                                  195                                   200                                   205  
 Cys Met Ser Arg Ala Tyr  
                                  210

&lt;210&gt; 991

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 991

Gly Pro Val Gly Pro Ala Gly Thr Arg Arg Ser His Ala Leu Gly Pro  
   1                                   5                                   10                                   15  
 Arg Pro Gly Ala Arg Ser Ser Phe Arg Leu Arg Cys Glu Leu Arg Arg  
                                  20                                   25                                   30  
 Cys Met Cys Gly Asn Asn Met Ser Thr Pro Leu Pro Ala Ile Val Pro  
                                  35                                   40                                   45  
 Ala Ala Arg Lys Ala Thr Ala Ala Val Ile Phe Leu His Gly Leu Gly  
                                  50                                   55                                   60  
 Asp Thr Gly His Gly Trp Ala Glu Ala Phe Ala Gly Ile Arg Ser Ser  
   65                                   70                                   75                                   80

His Ile Lys Tyr Ile Cys Pro His Ala Pro Val Arg Pro Val Thr Leu  
                             85                            90                            95  
 Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile Ile Gly Leu Ser  
                             100                            105                            110  
 Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln Ala Ala Glu Asn  
                             115                            120                            125  
 Ile Lys Ala Leu Ile Asp Gln Glu Val Lys Asn Gly Ile Pro Ser Asn  
                             130                            135                            140  
 Arg Ile Ile Leu Gly Gly Phe Ser Gln Gly Gly Ala Leu Ser Leu Tyr  
                             145                            150                            155                            160  
 Thr Ala Leu Thr Thr Gln Gln Lys Leu Ala Gly Val Thr Ala Leu Ser  
                             165                            170                            175  
 Cys Trp Leu Pro Leu Arg Ala Ser Phe Pro Gln Gly Pro Ile Gly Gly  
                             180                            185                            190  
 Ala Asn Arg Asp Ile Ser Ile Leu Gln Cys His Gly Asp Cys Asp Pro  
                             195                            200                            205  
 Leu Val Pro Leu Met Phe Gly Ser Leu Thr Val Glu Lys Leu Lys Thr  
                             210                            215                            220  
 Leu Val Asn Pro Ala Asn Val Thr Phe Lys Thr Tyr Glu Gly Met Met  
                             225                            230                            235                            240  
 His Ser Ser Cys Gln Gln Glu Met Met Asp Val Lys Gln Phe Ile Asp  
                             245                            250                            255  
 Lys Leu Leu Pro Pro Ile Asp  
                             260

&lt;210&gt; 992

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (229)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 992

Val Pro Arg Arg Val Leu Glu Pro Leu Leu Gln Arg Ile His Glu Glu



1	5	10	15
Glu Ser Ala Val Val Cys Pro Val Ile Asp Val Ile Asp Trp Asn Thr	20	25	30
Phe Glu Tyr Leu Gly Asn Ser Gly Glu Pro Gln Ile Gly Gly Phe Asp	35	40	45
Trp Arg Leu Val Phe Thr Trp His Thr Val Pro Glu Arg Glu Arg Ile	50	55	60
Arg Met Gln Ser Pro Val Asp Val Ile Arg Ser Pro Thr Met Ala Gly	65	70	75
Gly Leu Phe Ala Val Ser Lys Lys Tyr Phe Glu Tyr Leu Gly Ser Tyr	85	90	95
Asp Thr Gly Met Glu Val Trp Gly Gly Glu Asn Leu Glu Phe Ser Phe	100	105	110
Arg Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His	115	120	125
Val Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala	130	135	140
Leu Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys	145	150	155
Glu Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly	165	170	175
Asp Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp	180	185	190
Phe Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu	195	200	205
Asp Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp	210	215	220
Tyr Cys Phe Asp Xaa Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His	225	230	235
Gln Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Asp Leu Val	245	250	255

&lt;210&gt; 993

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 993

Val Val Trp Ser Arg Val Cys Gly Phe Ser Gly Pro Ile Ile Met Ala  
1 5 10 15

Ala Ser Glu Ser Glu Glu Ser His Arg Ala Val Gly Glu Leu Leu Leu  
20 25 30

Pro Ser Pro Ser Pro Phe Val Ala Pro Thr Leu Ala Ala Tyr Phe Cys  
35 40 45

Ser Ser Ala Gly Glu Ser Val Trp Ala Ser Ser Ser Pro Ser Leu Ser  
50 55 60

Pro Cys Tyr Phe Met Gly  
65 70

&lt;210&gt; 994

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 994

Asp Tyr Ala Xaa Thr Pro Gln Gly Leu Cys Tyr Asp Val Ala Cys Thr  
1 5 10 15

Arg Lys Leu Gly Pro Leu Glu Gly Ser Ser Arg Ala Ala Ala Ala Ala  
20 25 30

Phe Gly Glu Ser Ala Gly Gln Met Ser Asn Glu Arg Gly Phe Glu Asn  
35 40 45

Val Glu Leu Gly Val Ile Gly Lys Lys Lys Lys Val Pro Arg Arg Val  
50 55 60

Ile His Phe Val Ser Gly Glu Thr Met Glu Glu Tyr Ser Thr Asp Glu  
65 70 75 80

Asp Glu Val Asp Gly Leu Glu Lys Lys Asp Val Leu Pro Thr Val Asp

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      85              90              95
Pro Thr Lys Leu Thr Trp Gly Pro Tyr Leu Trp Phe Tyr Met Leu Arg
    100              105              110
Ala Ala Thr Ser Thr Leu Ser Val Cys Asp Phe Leu Gly Glu Lys Ile
    115              120              125
Ala Ser Val Leu Gly Ile Ser Thr Pro Lys Tyr Gln Tyr Ala Ile Asp
    130              135              140
Glu Tyr Tyr Arg Met Lys Lys Glu Glu Glu Glu Glu Glu Glu Asn
    145              150              155              160
Arg Met Ser Glu Glu Ala Glu Lys Gln Tyr Gln Gln Asn Lys Leu Gln
    165              170              175
Thr Asp Ser Ile Val Gln Thr Asp Gln Pro Glu Thr Val Ile Ser Ser
    180              185              190
Ser Phe Val Asn Val Asn Phe Glu Met Glu Gly Asp Ser Glu Val Ile
    195              200              205
Met Glu Ser Lys Gln Asn Pro Val Ser Val Pro Pro
    210              215              220

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&lt;210&gt; 995

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 995

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Lys Ile Gln Gly Pro Glu Leu Trp Lys Leu Gln Ala Lys Gly Met Gly
  1              5              10              15
Leu Gly Leu Ser Cys Val Xaa Ile Leu Ile Arg Lys Gly Tyr Ala His
    20              25              30
Thr Leu Ala Cys Ser Asp Ser Lys Thr Glu Gly Phe Thr Arg Pro Thr
    35              40              45
Pro Gly Lys Trp Ala Ser Leu Pro Pro Met Leu Ser Phe Asn Leu Cys
    50              55              60

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Asn Leu Pro Val Ser Ile Gly Gly His Leu Thr Pro Ser Lys Glu Pro  
 65 70 75 80

Ser Leu Phe Cys Pro Leu Pro Cys Thr Val Phe Leu Cys Ile Ser Pro  
 85 90 95

Ser Trp Ala Leu Phe Tyr Ser His Leu Gly Leu  
 100 105

<210> 996  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 996  
 Thr Ile Gln Pro Arg Arg Ser Pro Ser Thr Arg Phe Xaa Xaa Asn Xaa  
 1 5 10 15

Ser Leu Val Gln Glu Asn Leu Tyr Phe Gln Arg Cys Leu Asp Trp Asn  
 20 25 30

Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln Asp Ile Ile  
 35 40 45

Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg Ala Arg Ala  
 50 55 60

Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys Asp Leu Gly  
 65 70 75 80

Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys Cys Leu Glu  
 85 90 95

Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu Cys Thr Phe

100 105 110  
Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu Val His Cys  
115 120 125  
Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp Trp His Met  
130 135 140  
Val Pro  
145

<210> 997  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 997  
Leu Thr Gln Lys Ala Thr Leu Leu Phe Leu Val Lys Met Ala Gly Lys  
1 5 10 15  
Gln Ala Val Ser Ala Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys Trp  
20 25 30  
Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp Asp  
35 40 45  
Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu Pro  
50 55 60  
Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu Asp  
65 70 75 80  
Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys Tyr  
85 90 95  
Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile Arg  
100 105 110  
Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys  
115 120

<210> 998  
<211> 762  
<212> PRT  
<213> Homo sapiens

<400> 998

His Gly Leu Thr Arg Asp Ser Ser Glu Gln Gly Arg Thr Gly Asp Thr  
 1 5 10 15  
 Leu Gly Arg Pro Ser Ala Cys Met Asp Ala Leu Lys Pro Pro Cys Leu  
 20 25 30  
 Trp Arg Asn His Glu Arg Gly Lys Lys Asp Arg Asp Ser Cys Gly Arg  
 35 40 45  
 Lys Asn Ser Glu Pro Gly Ser Pro His Ser Leu Glu Ala Leu Arg Asp  
 50 55 60  
 Ala Ala Pro Ser Gln Gly Leu Asn Phe Leu Leu Leu Phe Thr Lys Met  
 65 70 75 80  
 Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala Leu  
 85 90 95  
 Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile Thr  
 100 105 110  
 Arg Pro Gln Pro Val Leu Pro Leu Leu Asp Leu Asn Asn Gln Ser Val  
 115 120 125  
 Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn Asp  
 130 135 140  
 Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val Phe  
 145 150 155 160  
 Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr Arg  
 165 170 175  
 Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser Asp  
 180 185 190  
 Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys Ser  
 195 200 205  
 Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu Trp  
 210 215 220  
 Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val Pro  
 225 230 235 240  
 Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn Lys  
 245 250 255  
 Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu Val  
 260 265 270

Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val Ile  
275 280 285

Ile Leu Met Asp Pro Phe Asp Asp Asp Leu Lys Gln Arg Gly Glu Lys  
290 295 300

Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly Lys  
305 310 315 320

Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser Val  
325 330 335

Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met Ile  
340 345 350

Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys Val  
355 360 365

Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr Leu  
370 375 380

Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr Ser  
385 390 395 400

Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu Ala  
405 410 415

Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro Arg  
420 425 430

Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr Pro  
435 440 445

Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys Glu  
450 455 460

Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu Ile  
465 470 475 480

Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile Val  
485 490 495

Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg Ala  
500 505 510

Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys Thr  
515 520 525

Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His Val  
530 535 540

Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala Asp  
545 550 555 560

Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys Gly  
565 570 575

Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln Glu  
580 585 590

Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg Trp  
595 600 605

Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile Phe  
610 615 620

Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn Ile  
625 630 635 640

Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu Ser  
645 650 655

Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val Leu  
660 665 670

Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu Leu  
675 680 685

Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln Lys  
690 695 700

Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala Ile  
705 710 715 720

Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr Pro  
725 730 735

Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr Gln  
740 745 750

Ile Asp Ser Leu Tyr Glu His Ile Gln Asp  
755 760

&lt;210&gt; 999

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 999

Thr Asn Val Asp Lys Leu Val Lys Asp Ile Tyr Gly Gly Asp Tyr Glu



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      1             5             10             15
Arg Phe Gly Leu Gln Gly Ser Ala Val Ala Ser Ser Phe Gly Asn Met
      20             25             30
Met Ser Lys Glu Lys Arg Asp Ser Ile Ser Lys Glu Asp Leu Ala Arg
      35             40             45
Ala Thr Leu Val Thr Ile Thr Asn Asn Ile Gly Ser Ile Ala Arg Met
      50             55             60
Cys Ala Leu Asn Glu Asn Ile Asp Arg Val Val Phe Val Gly Asn Phe
      65             70             75             80
Leu Arg Ile Asn Met Val Ser Met Lys Leu Leu Ala Tyr Ala Met Asp
      85             90             95
Phe Trp Ser Lys Gly Gln Leu Lys Ala Leu Phe Leu Glu His Glu Gly
      100            105            110
Tyr Phe Gly Ala Val Gly Ala Leu Leu Glu Leu Phe Lys Met Thr Asp
      115            120            125
Asp Lys
      130

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&lt;210&gt; 1000

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1000

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Gln Gln Asn Glu Ala Lys Ile Lys Gly Val Ser Lys Gly Arg Asn Ile
  1             5             10             15

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Cys Val Val Cys Cys Gln His Lys Met Glu Glu Leu Lys Glu Gly Leu
      20             25             30

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Arg Gln Arg Asp Glu Leu Ile Glu Glu Lys Gln Arg Met Gln Gln Lys

```

35	40	45
Ile Asp Thr Met Thr Lys Glu Val Phe Asp Leu Gln Xaa Thr Leu Leu		
50	55	60
Trp Lys Asp Lys Lys Ile Xaa Lys His Gly Leu Val Ile Ile Pro Asp		
65	70	75 80
Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val Ala Gly Ala Ile		
	85	90 95
Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu Ser Ala Gly Glu		
	100	105 110
Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly Glu Lys Glu Glu		
	115	120 125
Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu Glu Glu Glu Arg		
	130	135 140
Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp Leu Ala Gly Leu		
145	150	155 160
Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln Arg Asp Ala Asn		
	165	170 175
Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys Ala Glu Gln Asp		
	180	185 190
Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu Gly Gln Val Leu		
	195	200 205
Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val Glu Asp Glu Leu		
	210	215 220
Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg Thr Ala Leu Asp		
225	230	235 240
Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu Ala Lys Arg Leu		
	245	250 255
Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala Gln Gln		
	260	265 270

&lt;210&gt; 1001

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1001

Leu His Ser Gln Val Phe Pro Ala Leu Thr Pro Lys Arg Trp Thr Gln  
 1 5 10 15

Val Arg Arg Gly Thr Ala Thr Val Gly Gly Met Ala Ile Leu Gln Val  
 20 25 30

Thr Ala Gly His Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His Pro  
 35 40 45

Pro Thr Met Ala Gln Gly Pro Ala Gly His Pro Pro Thr Met Val Gln  
 50 55 60

Gly Pro Ala Gly His Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His  
 65 70 75 80

Pro Pro Thr Met Val Gln Gly Pro Ala Gly Leu Pro Leu Ala Met Ala  
 85 90 95

Gln Val Thr His Pro Leu Val His Ile Thr Glu Glu Val Xaa Xaa Asn  
 100 105 110

Arg Thr Gln Asp Gly Lys Pro Glu Arg Asn Cys Pro  
 115 120

&lt;210&gt; 1002

&lt;211&gt; 647

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1002

Thr Ile Gln Ile Val Asn Met Gly Arg Arg Ser Thr Ser Ser Thr Lys  
 1 5 10 15

Ser Gly Lys Phe Met Asn Pro Thr Asp Gln Ala Arg Lys Glu Ala Arg  
 20 25 30

Lys Arg Glu Leu Lys Lys Asn Lys Lys Gln Arg Met Met Val Arg Ala  
 35 40 45

Ala Val Leu Lys Met Lys Asp Pro Lys Gln Ile Ile Arg Asp Met Glu  
 50 55 60  
 Lys Leu Asp Glu Met Glu Phe Asn Pro Val Gln Gln Pro Gln Leu Asn  
 65 70 75 80  
 Glu Lys Val Leu Lys Asp Lys Arg Lys Lys Leu Arg Glu Thr Phe Glu  
 85 90 95  
 Arg Ile Leu Arg Leu Tyr Glu Lys Glu Asn Pro Asp Ile Tyr Lys Glu  
 100 105 110  
 Leu Arg Lys Leu Glu Val Glu Tyr Glu Gln Lys Arg Ala Gln Leu Ser  
 115 120 125  
 Gln Tyr Phe Asp Ala Val Lys Asn Ala Gln His Val Glu Val Glu Ser  
 130 135 140  
 Ile Pro Leu Pro Asp Met Pro His Ala Pro Ser Asn Ile Leu Ile Gln  
 145 150 155 160  
 Asp Ile Pro Leu Pro Gly Ala Gln Pro Pro Ser Ile Leu Lys Lys Thr  
 165 170 175  
 Ser Ala Tyr Gly Pro Pro Thr Arg Ala Val Ser Ile Leu Pro Leu Leu  
 180 185 190  
 Gly His Gly Val Pro Arg Leu Pro Pro Gly Arg Lys Pro Pro Gly Pro  
 195 200 205  
 Pro Pro Gly Pro Pro Pro Pro Gln Val Val Gln Met Tyr Gly Arg Lys  
 210 215 220  
 Val Gly Phe Ala Leu Asp Leu Pro Pro Arg Arg Arg Asp Glu Asp Met  
 225 230 235 240  
 Leu Tyr Ser Pro Glu Leu Ala Gln Arg Gly His Asp Asp Asp Val Ser  
 245 250 255  
 Ser Thr Ser Glu Asp Asp Gly Tyr Pro Glu Asp Met Asp Gln Asp Lys  
 260 265 270  
 His Asp Asp Ser Thr Asp Asp Ser Asp Thr Asp Lys Ser Asp Gly Glu  
 275 280 285  
 Ser Asp Gly Asp Glu Phe Val His Arg Asp Asn Gly Glu Arg Asp Asn  
 290 295 300  
 Asn Glu Glu Lys Lys Ser Gly Leu Ser Val Arg Phe Ala Asp Met Pro  
 305 310 315 320

Gly Lys Ser Arg Lys Lys Lys Lys Asn Met Lys Glu Leu Thr Pro Leu  
 325 330 335  
 Gln Ala Met Met Leu Arg Met Ala Gly Gln Glu Ile Pro Glu Glu Gly  
 340 345 350  
 Arg Glu Val Glu Glu Phe Ser Glu Asp Asp Asp Glu Asp Asp Ser Asp  
 355 360 365  
 Asp Ser Glu Ala Glu Lys Gln Ser Gln Lys Gln His Lys Glu Glu Ser  
 370 375 380  
 His Ser Asp Gly Thr Ser Thr Ala Ser Ser Gln Gln Ala Pro Pro  
 385 390 395 400  
 Gln Ser Val Pro Pro Ser Gln Ile Gln Ala Pro Pro Met Pro Gly Pro  
 405 410 415  
 Pro Pro Leu Gly Pro Pro Pro Ala Pro Pro Leu Arg Pro Pro Gly Pro  
 420 425 430  
 Pro Thr Gly Leu Pro Pro Gly Pro Pro Pro Gly Ala Pro Pro Phe Leu  
 435 440 445  
 Arg Pro Pro Gly Met Pro Gly Leu Arg Gly Pro Leu Pro Arg Leu Leu  
 450 455 460  
 Pro Pro Gly Pro Pro Pro Gly Arg Pro Pro Gly Pro Pro Pro Gly Pro  
 465 470 475 480  
 Pro Pro Gly Leu Pro Pro Gly Pro Pro Pro Arg Gly Pro Pro Pro Arg  
 485 490 495  
 Leu Pro Pro Pro Ala Pro Pro Gly Ile Pro Pro Pro Arg Pro Gly Met  
 500 505 510  
 Met Arg Pro Pro Leu Val Pro Pro Leu Gly Pro Ala Pro Pro Gly Leu  
 515 520 525  
 Phe Pro Pro Ala Pro Leu Pro Asn Pro Gly Val Leu Ser Ala Pro Pro  
 530 535 540  
 Asn Leu Ile Gln Arg Pro Lys Ala Asp Asp Thr Ser Ala Ala Thr Ile  
 545 550 555 560  
 Glu Lys Lys Ala Thr Ala Thr Ile Ser Ala Lys Pro Gln Ile Thr Asn  
 565 570 575  
 Pro Lys Ala Glu Ile Thr Arg Phe Val Pro Thr Ala Leu Arg Val Arg  
 580 585 590

Arg Glu Asn Lys Gly Ala Thr Ala Ala Pro Gln Arg Lys Ser Glu Asp  
595 600 605

Asp Ser Ala Val Pro Leu Ala Lys Ala Ala Pro Lys Ser Gly Pro Ser  
610 615 620

Val Pro Val Ser Val Gln Thr Lys Asp Asp Val Tyr Glu Ala Phe Met  
625 630 635 640

Lys Glu Met Glu Gly Leu Leu  
645

<210> 1003

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (253)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys  
1 5 10 15

Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly  
20 25 30

Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro  
35 40 45

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr  
50 55 60

Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val  
65 70 75 80

Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn  
85 90 95

Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Xaa Val Glu Pro  
100 105 110

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
115 120 125

Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
130 135 140

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
145 150 155 160

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly  
165 170 175

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn  
180 185 190

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp  
195 200 205

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro  
210 215 220

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu  
225 230 235 240

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Xaa Glu Xaa Thr Lys Asn  
245 250 255

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
260 265 270

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
275 280 285

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys  
290 295 300

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys  
305 310 315 320

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
325 330 335

Ser Leu Ser Pro Gly Lys  
340

&lt;210&gt; 1004

&lt;211&gt; 544

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (531)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1004

Arg	Leu	Pro	Pro	Ala	Ser	Ala	Thr	Ala	Arg	Arg	Pro	Arg	Pro	Ser	Ser
1				5					10					15	

Ala	Leu	Cys	Cys	Pro	Arg	Ser	Arg	Arg	Arg	Xaa	Gly	Gln	Arg	Pro	Gly
				20				25					30		

Ala	Ala	Gln	Gly	Cys	His	Pro	Arg	Arg	Phe	Pro	Lys	Lys	Ala	Ser	Arg
		35					40					45			

Thr	Ala	Arg	Ile	Ala	Ser	Asp	Glu	Glu	Ile	Gln	Gly	Thr	Lys	Asp	Ala
	50					55					60				

Val	Ile	Gln	Asp	Leu	Glu	Arg	Lys	Leu	Arg	Phe	Lys	Glu	Asp	Leu	Leu
65				70						75				80	

Asn	Asn	Gly	Gln	Pro	Arg	Leu	Thr	Tyr	Glu	Glu	Arg	Met	Ala	Arg	Arg
			85						90					95	

Leu	Leu	Gly	Ala	Asp	Ser	Ala	Thr	Val	Phe	Asn	Ile	Gln	Glu	Pro	Glu
			100					105					110		

Glu	Glu	Thr	Ala	Asn	Gln	Glu	Tyr	Lys	Val	Ser	Ser	Cys	Glu	Gln	Arg
		115					120					125			

Leu	Ile	Ser	Glu	Ile	Glu	Tyr	Arg	Leu	Glu	Arg	Ser	Pro	Val	Asp	Glu
	130					135					140				

Ser	Gly	Asp	Glu	Val	Gln	Tyr	Gly	Asp	Val	Pro	Val	Glu	Asn	Gly	Met
145					150					155				160	

Ala	Pro	Phe	Phe	Glu	Met	Lys	Leu	Lys	His	Tyr	Lys	Ile	Phe	Glu	Gly
				165					170					175	



Met Pro Val Thr Phe Thr Cys Arg Val Ala Gly Asn Pro Lys Pro Lys  
180 185 190

Ile Tyr Trp Phe Lys Asp Gly Lys Gln Ile Ser Pro Lys Ser Asp His  
195 200 205

Tyr Thr Ile Gln Arg Asp Leu Asp Gly Thr Cys Ser Leu His Thr Thr  
210 215 220

Ala Ser Thr Leu Asp Asp Asp Gly Asn Tyr Thr Ile Met Ala Ala Asn  
225 230 235 240

Pro Gln Gly Arg Ile Ser Cys Thr Gly Arg Leu Met Val Gln Ala Val  
245 250 255

Asn Gln Arg Gly Arg Ser Pro Arg Ser Pro Ser Gly His Pro His Val  
260 265 270

Arg Arg Pro Arg Ser Arg Ser Arg Asp Ser Gly Asp Glu Asn Glu Pro  
275 280 285

Ile Gln Glu Arg Phe Phe Arg Pro His Phe Leu Gln Ala Pro Gly Asp  
290 295 300

Leu Thr Val Gln Glu Gly Lys Leu Cys Arg Met Asp Cys Lys Val Ser  
305 310 315 320

Gly Leu Pro Thr Pro Asp Leu Ser Trp Gln Leu Asp Gly Lys Pro Val  
325 330 335

Arg Pro Asp Ser Ala His Lys Met Leu Val Arg Glu Asn Gly Val His  
340 345 350

Ser Leu Ile Ile Glu Pro Val Thr Ser Arg Asp Ala Gly Ile Tyr Thr  
355 360 365

Cys Ile Ala Thr Asn Arg Ala Gly Gln Asn Ser Phe Ser Leu Glu Leu  
370 375 380

Val Val Ala Ala Lys Glu Ala His Lys Pro Pro Val Phe Ile Glu Lys  
385 390 395 400

Leu Gln Asn Thr Gly Val Ala Asp Gly Tyr Pro Val Arg Leu Glu Cys  
405 410 415

Arg Val Leu Gly Val Pro Pro Pro Gln Ile Phe Trp Lys Lys Glu Asn  
420 425 430

Glu Ser Leu Thr His Ser Thr Asp Arg Val Ser Met His Gln Asp Asn  
435 440 445

His Gly Tyr Ile Cys Leu Leu Ile Gln Gly Ala Thr Lys Glu Asp Ala  
 450 455 460  
 Gly Trp Tyr Thr Val Ser Ala Lys Asn Glu Ala Gly Ile Val Ser Cys  
 465 470 475 480  
 Thr Ala Arg Leu Asp Val Tyr Thr Gln Trp His Gln Gln Ser Gln Ser  
 485 490 495  
 Thr Lys Pro Lys Lys Val Arg Pro Ser Ala Ser Arg Tyr Ala Ala Leu  
 500 505 510  
 Ser Asp Gln Gly Leu Asp Ile Lys Ala Ala Phe Gln Pro Glu Ala Asn  
 515 520 525  
 Pro Ser Xaa Leu Thr Leu Asn Thr Ala Leu Val Glu Ser Glu Asp Leu  
 530 535 540

&lt;210&gt; 1005

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1005

Ala Ala Pro Gln Pro Thr Pro Glu Glu Arg Pro Ala Gly Val Arg Arg  
 1 5 10 15  
 Ala Gln Glu Leu Gly Met Ser Tyr Lys Pro Ile Ala Pro Ala Pro Ser  
 20 25 30  
 Ser Thr Pro Gly Ser Ser Thr Pro Gly Pro Gly Thr Pro Val Pro Thr  
 35 40 45  
 Gly Ser Val Pro Ser Pro Ser Gly Ser Val Pro Gly Ala Gly Ala Pro  
 50 55 60  
 Phe Arg Pro Leu Phe Asn Asp Phe Gly Pro Pro Ser Met Gly Tyr Val  
 65 70 75 80  
 Gln Ala Met Lys Pro Pro Gly Ala Gln Gly Ser Gln Ser Thr Tyr Thr  
 85 90 95  
 Asp Leu Leu Ser Val Ile Glu Glu Met Gly Lys Glu Ile Arg Pro Thr  
 100 105 110  
 Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg Gly Ser Ala

115 120 125  
Ser Ala Ser Ala Ser Gly Pro Ile Arg Pro Leu Gln Ser Thr Arg Phe  
130 135 140  
Ser Leu Ala Phe Ile Pro Ser Cys Thr Asn His Pro Gly Leu Pro Val  
145 150 155 160  
Leu Cys Pro Leu Val Gly Pro Leu Gln Glu Pro Arg Ser Gly Pro Pro  
165 170 175  
Gly Gly Ser Thr Lys Asp Thr Pro Pro Gln Gln Glu Leu Ala Ala Arg  
180 185 190  
Ser Pro

<210> 1006

<211> 312

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (309)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1006

Ala	Val	Arg	Leu	Pro	Ala	Ala	Tyr	Ile	Lys	Ala	Pro	Gly	His	Ala	Glu
1				5					10					15	
Pro	Ser	Ser	Arg	Thr	Arg	Pro	Thr	Thr	Met	Arg	Ser	Cys	Leu	Trp	Arg
			20					25					30		
Cys	Arg	His	Leu	Ser	Gln	Gly	Val	Gln	Trp	Ser	Leu	Leu	Leu	Ala	Val
		35				40					45				
Leu	Val	Phe	Phe	Leu	Phe	Ala	Leu	Pro	Ser	Phe	Ile	Lys	Glu	Pro	Gln
	50					55					60				
Thr	Lys	Pro	Ser	Arg	His	Gln	Arg	Thr	Glu	Asn	Ile	Lys	Glu	Arg	Ser
65					70					75				80	
Leu	Gln	Ser	Leu	Ala	Lys	Pro	Lys	Ser	Gln	Ala	Pro	Thr	Arg	Ala	Arg
				85					90					95	
Arg	Thr	Thr	Ile	Tyr	Ala	Glu	Pro	Xaa	Pro	Glu	Asn	Asn	Ala	Leu	Asn
			100					105					110		
Thr	Gln	Thr	Gln	Pro	Lys	Ala	His	Thr	Thr	Gly	Asp	Arg	Gly	Lys	Glu
		115					120					125			
Ala	Asn	Gln	Ala	Pro	Pro	Glu	Gln	Asp	Lys	Val	Pro	His	Thr	Ala	
	130					135				140					
Gln	Arg	Ala	Ala	Trp	Lys	Ser	Pro	Glu	Lys	Glu	Lys	Thr	Met	Val	Asn
145					150					155				160	
Thr	Leu	Ser	Pro	Arg	Gly	Gln	Asp	Ala	Gly	Met	Ala	Ser	Gly	Arg	Thr
				165					170					175	
Glu	Ala	Gln	Ser	Trp	Lys	Ser	Gln	Asp	Thr	Lys	Thr	Thr	Gln	Gly	Asn
				180				185					190		
Gly	Gly	Gln	Thr	Arg	Lys	Leu	Thr	Ala	Ser	Arg	Thr	Val	Ser	Glu	Lys

195                      200                      205  
 His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Xaa Ile Xaa Lys Ser  
     210                      215                      220  
 Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg  
     225                      230                      235                      240  
 Gln Lys Gly Xaa Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro  
                     245                      250                      255  
 Gln Ala Thr Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg  
                     260                      265                      270  
 Asn Gln Arg Leu Lys Gly Gly Asn Phe Lys Ser Glu Pro Arg Trp Asp  
                     275                      280                      285  
 Phe Glu Glu Lys Tyr Lys Leu Arg Asn Xaa Xaa Ala Ser Asp Asp Leu  
                     290                      295                      300  
 Ala Leu Thr Leu Xaa Arg Ser Lys  
     305                      310  
  
 <210> 1007  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1007  
 Pro Glu Pro Ala Met Ala Leu Pro His Arg Arg Leu Ser Pro Trp Leu  
     1                      5                      10                      15  
 Arg Gln Arg His Gln Gly Pro Gly Gln Val Cys Gly Pro Gln Ala Ala  
                     20                      25                      30  
 Glu His Asp Arg Arg Asp Ala Gly Cys Thr Ala Asp Leu Leu Val Gly  
                     35                      40                      45  
 Arg Ala Met Thr Phe His Gly His Gly Phe Leu Arg Leu Ala Leu Ser  
                     50                      55                      60  
 Asn Val Ala Pro Leu Thr Gly Asn Val Tyr Ser Gly Phe Gly Phe His  
     65                      70                      75                      80  
 Ser Ala Gln Asp Ser Ala Leu Leu Tyr Tyr Arg Ala Ser Pro Asp Gly  
                     85                      90                      95  
 Leu Cys Gln Val Ser Leu Gln Gln Gly Arg Val Ser Leu Gln Leu Leu  
                     100                      105                      110

Arg Thr Glu Val Lys Thr Gln Ala Gly Phe Ala Asp Gly Ala Pro His  
 115 120 125  
 Tyr Val Ala Phe Tyr Ser Asn Ala Thr Gly Val Trp Leu Tyr Val Asp  
 130 135 140  
 Asp Gln Leu Gln Gln Met Lys Pro His Arg Gly Pro Pro Pro Glu Leu  
 145 150 155 160  
 Gln Pro Gln Pro Glu Gly Pro Pro Arg Leu Leu Leu Gly Gly Leu Pro  
 165 170 175  
 Glu Ser Gly Thr Ile Tyr Asn Phe Ser Gly Cys Ile Ser Asn Val Phe  
 180 185 190  
 Val Gln Arg Leu Leu Gly Pro Gln Arg Val Phe Asp Leu Gln Gln Asn  
 195 200 205  
 Leu Gly Ser Val Asn Val Ser Thr Gly Cys Ala Pro Ala Leu Gln Ala  
 210 215 220  
 Gln Thr Pro Gly Leu Gly Pro Arg Gly Leu Gln Ala Thr Ala Arg Lys  
 225 230 235 240  
 Ala Ser Arg Arg Ser Arg Gln Pro Ala Arg His Pro Ala Cys Met Leu  
 245 250 255  
 Pro Pro His Leu Arg Thr Thr Arg Asp Ser Tyr Gln Phe Gly Gly Ser  
 260 265 270  
 Leu Ser Ser His Leu Glu Phe Val Gly Ile Leu Ala Arg His Arg Asn  
 275 280 285  
 Trp Pro Ser Leu Ser Met His Val Leu Pro Arg Ser Ser Arg Gly Leu  
 290 295 300  
 Leu Leu Phe Thr Ala Arg Leu Arg Pro Gly Ser Pro Ser Leu Ala Leu  
 305 310 315 320  
 Phe Leu Ser Asn Gly His Phe Val Ala Gln Met Glu Gly Leu Gly Thr  
 325 330 335  
 Arg Leu Arg Ala Gln Ser Arg Gln Arg Ser Arg Pro Gly Ala Gly Thr  
 340 345 350  
 Arg Ser Pro Cys Ala Gly Arg Arg Thr Gly Ser Cys Trp  
 355 360 365

<210> 1008  
<211> 196  
<212> PRT  
<213> Homo sapiens

<400> 1008

Ala Thr Pro Pro Pro Pro Glu Gln Ala Met Val Ala Ala Thr Val Ala  
1 5 10 15  
Ala Ala Trp Leu Leu Leu Trp Ala Ala Ala Cys Ala Gln Gln Glu Gln  
20 25 30  
Asp Phe Tyr Asp Phe Lys Ala Val Asn Ile Arg Gly Lys Leu Val Ser  
35 40 45  
Leu Glu Lys Tyr Arg Gly Ser Val Ser Leu Val Val Asn Val Ala Ser  
50 55 60  
Glu Cys Gly Phe Thr Asp Gln His Tyr Arg Ala Leu Gln Gln Leu Gln  
65 70 75 80  
Arg Asp Leu Gly Pro His His Phe Asn Val Leu Ala Phe Pro Cys Asn  
85 90 95  
Gln Phe Gly Gln Gln Glu Pro Asp Ser Asn Lys Glu Ile Glu Ser Phe  
100 105 110  
Ala Arg Arg Thr Tyr Ser Val Ser Phe Pro Met Phe Ser Lys Ile Ala  
115 120 125  
Val Thr Gly Thr Gly Ala His Pro Ala Phe Lys Tyr Leu Ala Gln Thr  
130 135 140  
Ser Gly Lys Glu Pro Thr Trp Asn Phe Trp Lys Tyr Leu Val Ala Pro  
145 150 155 160  
Asp Gly Lys Val Val Gly Ala Trp Asp Pro Thr Val Ser Val Glu Glu  
165 170 175  
Val Arg Pro Gln Ile Thr Ala Leu Val Arg Lys Leu Ile Leu Leu Lys  
180 185 190  
Arg Glu Asp Leu  
195

<210> 1009  
<211> 227  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (156)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (204)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (210)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (212)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (215)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (220)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (222)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1009

Asp	Pro	Arg	Val	Arg	Ala	Ala	Ala	Ala	Gly	Pro	Met	Ala	Asp	Thr	Gln
1				5					10					15	

Tyr	Ile	Leu	Pro	Asn	Asp	Ile	Gly	Val	Ser	Ser	Leu	Asp	Cys	Arg	Glu
			20					25					30		

Ala	Phe	Arg	Leu	Leu	Ser	Pro	Thr	Glu	Arg	Leu	Tyr	Ala	Tyr	His	Leu
			35					40						45	



Ser Arg Ala Ala Trp Tyr Gly Gly Leu Ala Val Leu Leu Gln Thr Ser  
 50 55 60  
 Pro Glu Ala Pro Tyr Ile Tyr Ala Leu Leu Ser Arg Leu Phe Arg Ala  
 65 70 75 80  
 Gln Asp Pro Asp Gln Leu Arg Gln His Ala Leu Ala Glu Gly Leu Thr  
 85 90 95  
 Glu Glu Glu Tyr Gln Ala Phe Leu Val Tyr Ala Ala Gly Val Tyr Ser  
 100 105 110  
 Asn Met Gly Asn Tyr Lys Ser Phe Gly Asp Thr Lys Phe Val Pro Asn  
 115 120 125  
 Leu Pro Lys Glu Lys Leu Glu Arg Val Ile Leu Gly Ser Glu Ala Ala  
 130 135 140  
 Gln Gln His Pro Glu Glu Val Arg Gly Leu Trp Xaa Thr Cys Gly Glu  
 145 150 155 160  
 Leu Met Phe Ser Leu Glu Pro Arg Leu Arg His Leu Gly Leu Gly Lys  
 165 170 175  
 Glu Gly Ile Thr Thr Tyr Phe Ser Gly Asn Cys Thr Met Glu Asp Ala  
 180 185 190  
 Lys Leu Ala Xaa Ile Ser Gly Leu Thr Glu Pro Xaa Cys Leu Gln Gln  
 195 200 205  
 Pro Xaa Leu Xaa Arg Ser Xaa Trp Glu Lys Gly Xaa Pro Xaa Thr Lys  
 210 215 220  
 Val Arg Val  
 225

&lt;210&gt; 1010

&lt;211&gt; 344

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1010

Asp Pro Ala Ser Asn Met Trp Gln Leu Trp Ala Ser Leu Cys Cys Leu  
 1 5 10 15

Leu Val Leu Ala Asn Ala Arg Ser Arg Pro Ser Phe His Pro Xaa Ser  
 20 25 30  
 Asp Glu Leu Val Asn Tyr Val Asn Lys Arg Asn Thr Thr Trp Gln Ala  
 35 40 45  
 Gly His Asn Phe Tyr Asn Val Asp Met Ser Tyr Leu Lys Arg Leu Cys  
 50 55 60  
 Gly Thr Phe Leu Gly Gly Pro Lys Pro Pro Gln Arg Val Met Phe Thr  
 65 70 75 80  
 Glu Asp Leu Lys Leu Pro Ala Ser Phe Asp Ala Arg Glu Gln Trp Pro  
 85 90 95  
 Gln Cys Pro Thr Ile Lys Glu Ile Arg Asp Gln Gly Ser Cys Gly Ser  
 100 105 110  
 Cys Trp Ala Phe Gly Ala Val Glu Ala Ile Ser Asp Arg Ile Cys Ile  
 115 120 125  
 His Thr Asn Ala His Val Ser Val Glu Val Ser Ala Glu Asp Leu Leu  
 130 135 140  
 Thr Cys Cys Gly Ser Met Cys Gly Asp Gly Cys Asn Gly Gly Tyr Pro  
 145 150 155 160  
 Ala Glu Ala Trp Asn Phe Trp Thr Arg Lys Gly Leu Val Ser Gly Gly  
 165 170 175  
 Leu Tyr Glu Ser His Val Gly Cys Arg Pro Tyr Ser Ile Pro Pro Cys  
 180 185 190  
 Glu His His Val Asn Gly Ser Arg Pro Pro Cys Thr Gly Glu Gly Asp  
 195 200 205  
 Thr Pro Lys Cys Ser Lys Ile Cys Glu Pro Gly Tyr Ser Pro Thr Tyr  
 210 215 220  
 Lys Gln Asp Lys His Tyr Gly Tyr Asn Ser Tyr Ser Val Ser Asn Ser  
 225 230 235 240  
 Glu Lys Asp Ile Met Ala Glu Ile Tyr Lys Asn Gly Pro Val Glu Gly  
 245 250 255  
 Ala Phe Ser Val Tyr Ser Asp Phe Leu Leu Tyr Lys Ser Gly Val Tyr  
 260 265 270  
 Gln His Val Thr Gly Glu Met Met Gly Gly His Ala Ile Arg Ile Leu  
 275 280 285

Gly Trp Gly Val Glu Asn Gly Thr Pro Tyr Trp Leu Val Ala Asn Ser  
 290 295 300

Trp Asn Thr Asp Trp Gly Asp Asn Gly Phe Phe Lys Ile Leu Arg Gly  
 305 310 315 320

Gln Asp His Cys Gly Ile Glu Ser Glu Val Val Ala Gly Ile Pro Arg  
 325 330 335

Thr Asp Gln Tyr Trp Glu Lys Ile  
 340

<210> 1011

<211> 384

<212> PRT

<213> Homo sapiens

<400> 1011

Ala Gly Thr Arg Gly Pro Gly Ala His Ile Arg Pro Trp His Pro Asp  
 1 5 10 15

Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr Arg Asp Gln Asn  
 20 25 30

Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala Leu Ser Ile Arg  
 35 40 45

Glu Ser Thr Leu Gly Pro Asp His Pro Ala Val Ala Ala Thr Leu Asn  
 50 55 60

Asn Leu Ala Val Leu Tyr Gly Lys Arg Gly Lys Tyr Lys Glu Ala Glu  
 65 70 75 80

Pro Leu Cys Gln Arg Ala Leu Glu Ile Arg Glu Lys Val Leu Gly Thr  
 85 90 95

Asn His Pro Asp Val Ala Lys Gln Leu Asn Asn Leu Ala Leu Leu Cys  
 100 105 110

Gln Asn Gln Gly Lys Tyr Glu Ala Val Glu Arg Tyr Tyr Gln Arg Ala  
 115 120 125

Leu Ala Ile Tyr Glu Gly Gln Leu Gly Pro Asp Asn Pro Asn Val Ala  
 130 135 140

Arg Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys Gln Gly Lys Tyr  
 145 150 155 160

Ala Glu Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr Arg Ala His Val  
 165 170 175  
 Gln Glu Phe Gly Ser Val Asp Asp Asp His Lys Pro Ile Trp Met His  
 180 185 190  
 Ala Glu Glu Arg Glu Glu Met Ser Lys Ser Arg His His Glu Gly Gly  
 195 200 205  
 Thr Pro Tyr Ala Glu Tyr Gly Gly Trp Tyr Lys Ala Cys Lys Val Ser  
 210 215 220  
 Ser Pro Thr Val Asn Thr Thr Leu Arg Asn Leu Gly Ala Leu Tyr Arg  
 225 230 235 240  
 Arg Gln Gly Lys Leu Glu Ala Ala Glu Thr Leu Glu Glu Cys Ala Leu  
 245 250 255  
 Arg Ser Arg Arg Gln Gly Thr Asp Pro Ile Ser Gln Thr Lys Val Ala  
 260 265 270  
 Glu Leu Leu Gly Glu Ser Asp Gly Arg Arg Thr Ser Gln Glu Gly Pro  
 275 280 285  
 Gly Asp Ser Val Lys Phe Glu Gly Gly Glu Asp Ala Ser Val Ala Val  
 290 295 300  
 Glu Trp Ser Gly Asp Gly Ser Gly Thr Leu Gln Arg Ser Gly Ser Leu  
 305 310 315 320  
 Gly Lys Ile Arg Asp Val Leu Arg Arg Ser Ser Glu Leu Leu Val Arg  
 325 330 335  
 Lys Leu Gln Gly Thr Glu Pro Arg Pro Ser Ser Ser Asn Met Lys Arg  
 340 345 350  
 Ala Ala Ser Leu Asn Tyr Leu Asn Gln Pro Ser Ala Ala Pro Leu Gln  
 355 360 365  
 Val Ser Arg Gly Leu Ser Ala Ser Thr Met Asp Leu Ser Ser Ser Ser  
 370 375 380

&lt;210&gt; 1012

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

Ala Asp Ala Trp Ala Trp Ser Gln Tyr Gly Ala Val Leu Gly Ser Tyr  
1 5 10 15

Ser Pro Glu Pro Pro Thr Ser Ala Gly Ser Gln Ile Pro Leu Cys Ala  
20 25 30

Asn Leu Val Pro Val Pro Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr  
35 40 45

Gly Lys Trp Phe Tyr Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn  
50 55 60

Lys Ser Val Gln Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn  
65 70 75 80

Lys Thr Glu Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asn  
85 90 95

Gln Cys Phe Tyr Asn Ser Ser Tyr Leu Asn Val Gln Arg Glu Asn Gly  
100 105 110

Thr Val Ser Arg Tyr Glu Gly Gly Arg Glu Thr Cys Cys Ser Pro Ala  
115 120 125

Val Pro  
130

&lt;210&gt; 1013

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1013

Lys Ile Leu Trp Pro Gly Val Val Ala His Ala Cys Asn Pro Ser Thr  
1 5 10 15

Leu Gly Gly Arg Gly Gly Arg Ile Ala  
20 25

&lt;210&gt; 1014

&lt;211&gt; 233

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1014

Asn	Cys	Asn	Leu	Asn	Pro	Ala	Ile	His	Phe	Gly	Phe	Phe	Leu	Ser	Asp
1				5						10				15	

Thr	Met	Cys	Gly	Lys	Leu	Phe	Cys	Gln	Gly	Gly	Ser	Asp	Asn	Leu	Pro
			20					25					30		

Trp	Lys	Gly	Arg	Ile	Val	Thr	Phe	Leu	Thr	Cys	Xaa	Thr	Phe	Asp	Pro
	35						40					45			

Glu	Asp	Thr	Ser	Gln	Glu	Ile	Xaa	Met	Val	Ala	Asn	Gly	Thr	Lys	Cys
	50					55					60				

Gly	Asp	Asn	Lys	Val	Cys	Xaa	Asn	Ala	Glu	Cys	Val	Asp	Ile	Glu	Lys
65				70						75				80	

Ala	Tyr	Lys	Ser	Thr	Asn	Cys	Ser	Ser	Lys	Cys	Lys	Gly	His	Ala	Val
				85					90					95	

Cys	Asp	His	Glu	Leu	Gln	Cys	Gln	Cys	Glu	Glu	Gly	Trp	Ile	Pro	Pro
		100					105						110		

Asp	Cys	Asp	Asp	Ser	Ser	Val	Val	Phe	His	Phe	Ser	Ile	Val	Val	Gly
	115					120						125			

Val	Leu	Phe	Pro	Met	Ala	Val	Ile	Phe	Val	Val	Val	Ala	Met	Val	Ile
	130					135					140				

Arg	His	Gln	Ser	Ser	Arg	Glu	Lys	Gln	Lys	Lys	Asp	Gln	Arg	Pro	Leu
145					150					155					160

Ser	Thr	Thr	Gly	Thr	Arg	Pro	His	Lys	Gln	Lys	Arg	Lys	Pro	Gln	Met
			165						170					175	

Val	Lys	Ala	Val	Gln	Pro	Gln	Glu	Met	Ser	Gln	Met	Lys	Pro	His	Val
			180					185					190		

Tyr Asp Leu Pro Val Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys  
 195 200 205

Asp Thr Asn Ala Leu Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser  
 210 215 220

Thr Pro Lys Asp Ser Asn Pro Lys Ala  
 225 230

<210> 1015

<211> 573

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

His Glu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Xaa Val Leu  
 1 5 10 15

Val Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Xaa Pro Arg Asn Tyr  
 20 25 30

Gly Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Arg Gly Glu Leu Pro  
 35 40 45

Cys Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu  
 50 55 60

Val Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly  
 65 70 75 80

Met Leu Leu Val Ser Cys Cys Leu Ala Gly His Ile Cys Val Trp Asp  
 85 90 95

Ala Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln

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100 105 110  
Arg Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp  
115 120 125  
Glu Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp  
130 135 140  
Ser Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu  
145 150 155 160  
Phe Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser  
165 170 175  
Ala Gln Xaa Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg  
180 185 190  
Ala Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys  
195 200 205  
Leu Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr  
210 215 220  
Pro Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro  
225 230 235 240  
Glu Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp  
245 250 255  
Ala Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn  
260 265 270  
Leu Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala  
275 280 285  
Ile Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile  
290 295 300  
Thr Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn  
305 310 315 320  
Gly Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro  
325 330 335  
Leu Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro  
340 345 350  
Val Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val  
355 360 365  
Pro Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly

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370              375              380
Arg Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu
385              390              395              400
Glu Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile
              405              410              415
Thr Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln
              420              425              430
Asp Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser
              435              440              445
His Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr
              450              455              460
Ser Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp
465              470              475              480
Arg Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys
              485              490              495
Gly Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly
              500              505              510
Gln Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln
              515              520              525
Thr Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile
              530              535              540
Leu Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu
545              550              555              560
Ser Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp
              565              570

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&lt;210&gt; 1016

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1016

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Lys Phe Tyr Ser Tyr Ser Val Tyr Val Ala Gln Pro Gly Leu Glu Pro
 1              5              10              15
Phe Gly Ser Ser Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile
      20              25              30

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Thr Asp Gly Ser His Arg Val Trp Pro Ile Pro Ala Ser  
                   35                  40                  45

<210> 1017

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1017

Gly Lys Val His Gly Leu Ile Pro Gln Val Lys Asn Val Phe Thr Leu  
   1                  5                  10                  15

Leu Ile Ala Val Ser Leu Tyr Leu Tyr Ile Arg Tyr Ile Ser Tyr Glu  
                   20                  25                  30

His Lys Phe Val Val Lys Val Ser Ser Val Trp Ala Met Ala His Thr  
                   35                  40                  45

Cys Asn Ser Asn Thr Leu Gly Gly Ser Gly Gly Arg Ile Ser Ser Pro  
                   50                  55                  60

Gln Glu Phe Glu Thr Ser Leu Gly Asn Lys Leu Asp Pro Met Ser Leu  
   65                  70                  75                  80

Lys Asn Val Lys Asn Ile Lys Arg Leu Ser Gln Glu Asp His Leu Ser  
                   85                  90                  95

Leu Gly Val Gln Gly Cys Ser Lys Leu  
                   100                  105

<210> 1018

<211> 30

<212> PRT

<213> Homo sapiens

<400> 1018

Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Trp Val Trp Trp Trp  
   1                  5                  10                  15

Ala Pro Val Val Pro Ala Thr Arg Glu Ala Glu Ala Gly Val  
                   20                  25                  30

<210> 1019

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019

Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Xaa Arg Ala Pro Arg Pro  
1 5 10 15

Pro Lys Val Leu Gly Xaa Thr Gly Val Ser His Arg Ala Arg Pro Asp  
20 25 30

Ser Leu Lys Ile Glu Glu Val Leu Pro Arg Xaa Ser Asp Leu Thr Gln  
35 40 45

Met His Arg Pro Cys Ser Trp Tyr Leu Phe Ser Leu Cys Trp Gly Ala  
50 55 60

Val Val Pro Ser Phe Leu Gly Gly  
65 70

<210> 1020

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020

Ser Gln Leu Leu Gly Glu Ala Glu Ala Gly Glu Ser Leu Glu Pro Gly  
1 5 10 15

Xaa Gly Asp Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Val Trp

20 25 30  
 Pro Thr Glu Gln Asp Ser Ile Ser Lys Lys Lys Arg Lys Gly Asp Ser  
 35 40 45  
 Asp Leu Val Leu Leu Asn Thr Ser Phe  
 50 55

<210> 1021  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 1021  
 Val Ala Gly Ala Tyr Asn Pro Ser Tyr Ser Gly Gly Gln Gly Arg Arg  
 1 5 10 15

Ile Ala

<210> 1022  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1022  
 Ser Gly Asn His Val Gln Asn Pro Ser Ser Gly Thr Ala Cys Cys Leu  
 1 5 10 15

Gln Pro Leu Ser Pro Gly Leu Arg Val Val Tyr Gly His Thr Trp Arg  
 20 25 30

Phe Phe Val Val Val Phe Xaa Thr Glu Phe His Ser Cys Cys Pro Gly  
 35 40 45

Trp Ser Ala Met Ala Pro Ser Arg Leu Thr Ala Thr Ser Thr Ser Trp  
 50 55 60

Phe Lys Arg Ser Gln Ala Ser Ala Ser Gln Val Val Gly Ile Thr Gly  
 65 70 75 80

Ala Cys His His Thr Trp Leu Ile Leu Tyr Phe

85

90

<210> 1023  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 1023  
Ala Glu Ile Ala Pro Leu His Ser Ser Leu Gly Asn Lys Ser Glu Thr  
1 5 10 15  
Leu Ser Gln Lys Lys Asn Lys Lys Pro His Lys Asn  
20 25

<210> 1024  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024  
Lys Val Asn Ile Gly Glu Gly Xaa Arg Xaa Arg Ser Xaa Val Pro Val  
1 5 10 15

Arg Asn Ser Arg Val Asp Pro Arg Val Xaa Leu Leu Val Gln Ala Gly  
                   20                  25                  30  
 Leu Glu Leu Ala Thr Xaa Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser  
                   35                  40                  45  
 Gly Gly Ile Thr Gly Val Ser His Arg Ala Gln Pro  
                   50                  55                  60

<210> 1025

<211> 67

<212> PRT

<213> Homo sapiens

<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1025

Ala Asn Leu Cys Ile Phe Ser Gly Asn Gly Val Leu Pro Arg Trp Pro  
   1                  5                  10                  15

Xaa Trp Ser Arg Thr Pro Asp Leu Arg Xaa Ser Thr His Pro Ser Leu  
                   20                  25                  30

Pro Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Ser Pro Ala Xaa Phe  
                   35                  40                  45

Ser Val Phe Asn Ile Ile Phe Val Leu Ser Thr Thr Phe Gln Val Leu  
                   50                  55                  60

Xaa Val Gln

65

&lt;210&gt; 1026

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1026

Glu Lys Xaa Leu Lys Glu Glu Gly Lys Ala Gly Trp Gly Gly Trp Gly  
1 5 10 15

Lys Glu Ala Gly Ser Ala Asp His Ser Pro Ser Met Ser Cys Phe Leu  
20 25 30

Lys Met Leu Glu Leu Gly Gln Ala Trp Trp Leu Thr Pro Val Ile Pro  
35 40 45

Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Leu Glu Val Arg Ser Ser  
50 55 60

Arg Pro Ala Trp Pro Thr Trp  
65 70

&lt;210&gt; 1027

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1027

Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Arg Ala Trp Trp Gln  
1 5 10 15

Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu Ala Gly Lys Ser Leu  
20 25 30

Glu Pro Gly Ser Arg Lys Leu Gln Xaa Ala Lys Val Met Ser Ser Leu  
35 40 45

His Ser Ser Leu Gly Asn Lys Ser Glu Asp Phe Val Ser Lys Lys Lys  
50 55 60

Leu Thr Asp Phe Xaa Phe Leu Xaa  
65 70

&lt;210&gt; 1028

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1028

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Ser Pro Xaa  
1 5 10 15

Gly Xaa Gly Cys Ser Glu Xaa Arg Ser Gly His  
20 25

&lt;210&gt; 1029

&lt;211&gt; 121

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1029

Asp Met Asn Ser Leu Met Met Gly Xaa Asp Lys Ile Lys Phe Lys His  
1 5 10 15

Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe  
20 25 30

Gln Gly Cys Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu  
35 40 45

Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln  
50 55 60

Val Thr Leu Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu  
65 70 75 80

Ala Ser Leu Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Pro Ser  
85 90 95

Phe Met Thr Arg Glu Phe Leu Lys Ser Leu Arg Xaa Leu Leu Val Thr  
100 105 110

Leu Trp Glu Pro Ser Leu Ser Leu Pro  
115 120

<210> 1030

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1030

Ala Glu Glu Thr Pro His Pro Trp Gln Lys Phe Arg Thr Lys Pro Gln

1                    5                    10                    15  
 Gly Asp Gln Asp Thr Gly Lys Glu Ala Asp Asp Gly Cys Ala Leu Gly  
                   20                    25                    30

Gly Xaa

<210> 1031

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031

Ser Glu Ser Gly Pro Arg Cys Ser Ser Pro Val Asp Thr Glu Cys Ser  
 1                    5                    10                    15

His Ala Glu Gly Ser Arg Ser Gln Gly Pro Glu Lys Ala Phe Ser Pro  
                   20                    25                    30

Ala Ser Pro Cys Ala Trp Asn Val Cys Val Thr Arg Lys Ala Pro Leu  
                   35                    40                    45

Leu Ala Ser Asp Ser Ser Ser Ser Gly Gly Ser His Ser Glu Asp Gly  
                   50                    55                    60

Asp Gln Lys Ala Ala Ser Ala Met Asp Ala Val Ser Arg Gly Pro Gly  
                   65                    70                    75                    80

Arg Glu Ala Pro Arg Cys Pro Gln Trp Pro Arg Gln Lys Lys Leu Leu  
                   85                    90                    95

Ala Arg Phe Gly Phe Leu Thr Thr Gly Phe Xaa Xaa Leu Pro Cys Pro  
                   100                    105                    110

Arg Ala Lys Arg Xaa  
115

<210> 1032  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 1032  
Lys Leu Thr Asp Glu Glu Val Asp Glu Met Ile Arg Glu Ala Asp Ile  
1 5 10 15  
Asp Gly Asp Gly Gln Val Asn Tyr Glu Glu Phe Val Gln Asn Asp Asp  
20 25 30  
Cys Lys Met Lys Thr Tyr Phe Gln Leu Leu Phe Pro Pro Ser  
35 40 45

<210> 1033  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 1033  
Thr Val Cys Ile Leu Arg Lys Leu Phe Ser His Asn Met Thr Arg Leu  
1 5 10 15  
Arg Lys Phe Met Val Tyr Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile  
20 25 30  
Gln Lys Thr Pro Leu Phe Val Ala Ala Ile Cys Ala His Trp Phe Gln  
35 40 45  
Tyr Pro Phe Asp Pro Ser Phe Asp Asp Val Ala Val Phe Lys Ser Tyr  
50 55 60  
Met Glu Arg Leu Ser Leu Arg Asn Lys Ala Thr Leu Lys Ile Leu Lys  
65 70 75 80  
Ala Thr Val Ser Ser Cys Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser  
85 90 95  
Cys Cys Phe Glu Phe Asn Gly Trp Met Asp Leu Ala Glu Ala Gly Gly  
100 105 110  
Gly Trp Lys Met Lys Ile

115

<210> 1034  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1034

Val	Lys	Ser	Gly	Xaa	Tyr	Val	Val	Ile	Glu	Val	Lys	Val	Ala	Xaa	Xaa
1				5				10						15	

Tyr	Gly	Ile	Xaa	Ile	Thr	Cys	Xaa	Xaa	Tyr	Leu	Met	Thr	Xaa	Tyr	Gln
		20					25						30		

Xaa	Ala	Pro	Pro	Ser	Pro	Gln	Tyr	Arg	Xaa	Ile	Ile	Cys	Met	Gly	Ala
		35					40					45			

Xaa	Xaa	Asn	Gly	Leu	Pro	Leu	Xaa	Tyr	Gln	Xaa	Xaa	Leu	Xaa	Ala	Leu
		50				55						60			

Xaa Pro Asn Asp Tyr Thr  
65 70

<210> 1035

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035

Xaa Asp Ala Trp Val Arg Asp Glu Glu Trp Gly Gly His Ser Pro Arg  
1 5 10 15

Ser Pro Arg Gly Trp Asp Gln Glu Pro Ala Arg Glu Gln Ala Gly Gly  
20 25 30

Gly Trp Arg Ala Arg Arg Pro Arg Ala Arg Ser Val Asp Ala Leu Asp  
35 40 45

Asp Leu Thr Pro Pro Ser Thr Ala Glu Ser Gly Ser Arg Ser Pro Thr

50                      55                      60  
 Ser Asn Gly Gly Arg Arg Ser Arg Ala Tyr Met Pro Pro Arg Ser Arg  
 65                      70                      75                      80  
 Ser Arg Asp Asp Leu Tyr Asp Gln Asp Asp Ser Arg Asp Phe Pro Arg  
                     85                      90                      95  
 Ser Arg Asp Pro His Tyr Asp Asp Phe Arg Ser Arg Glu Arg Pro Pro  
                     100                      105                      110  
 Ala Asp Pro Arg Ser His His His Arg Thr Arg Asp Pro Arg Asp Asn  
                     115                      120                      125  
 Gly Ser Arg Ser Gly Asp Leu Pro Tyr Asp Gly Arg Leu Leu Glu Glu  
                     130                      135                      140  
 Ala Val Xaa Lys Lys Gly Ser Asp Glu Arg Xaa Arg Pro His Xaa Glu  
 145                      150                      155                      160  
 Xaa Xaa Glu

&lt;210&gt; 1036

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1036

Gly Cys Pro Pro Arg Ala Xaa Ser Leu Pro Gly Ser Pro Arg Cys Arg  
 1                      5                      10                      15

Xaa Arg Cys His Thr Met Ala Phe Xaa Thr Arg Gln Phe Met  
                     20                      25                      30



<210> 1037  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1037  
Thr His Phe Phe Xaa Gln His Gln Lys Leu Val Pro Leu Leu Met Ser  
1 5 10 15

Ile Met Pro Arg Ile Gln Lys Ala Tyr Xaa Val Phe Xaa Tyr Leu Val  
20 25 30

Gln Asp Leu Lys Cys Leu Val Phe Ser Leu Ile Gly Leu His Phe Lys  
35 40 45

Xaa Lys Pro Ser Arg Leu Xaa Ile Xaa Val Gly Xaa Gly Gly Gly Trp  
50 55 60

Xaa  
65

<210> 1038

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1038

Cys Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val  
1 5 10 15

Arg Thr Pro Ile Pro Val Pro Ala Tyr Phe Arg His Ala Glu Pro Gly  
20 25 30

Phe Ser Leu Lys Arg Pro Arg Gly Leu Ser Arg Ser Leu Pro Pro Pro  
35 40 45

Pro Pro Ala Lys Gly Ser Ile Pro Ile Ser Arg Leu Phe Pro Pro Arg  
50 55 60

Thr Pro Gly Trp His Gln Leu Gln Pro Arg Gly Cys His Ser Gly Arg  
65 70 75 80

Arg Pro Arg Asp Ser Ala Glu Pro Trp Val  
85 90

<210> 1039

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1039

Ala Ala Ala Gly Pro Gly Xaa Cys Trp Ala Phe Xaa Pro Xaa Arg Leu  
1 5 10 15  
His Ala Pro Thr Ala Arg Ser Thr Tyr Ser Phe Gln Ala Arg Xaa Leu  
20 25 30  
Xaa Glu Lys Glu Phe Ser Xaa Leu Ile Ser Leu Gly Thr Asp Arg Leu  
35 40 45  
Leu Asp Xaa Asp Met Arg Gln Val Phe Gln Phe Xaa Pro His Pro Gly  
50 55 60  
Gly Arg Cys Ser Gly Xaa Lys Asp Leu Arg Gly Val Thr Xaa Arg Leu  
65 70 75 80  
Thr Glu Met Leu Pro Xaa Asn Phe Arg Ser Xaa Ala Ala Xaa Phe Leu  
85 90 95  
Gly Xaa Ser Gly Ala Pro Phe Ser  
100

<210> 1040

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1040

Gly Arg Trp Leu Lys Asp Gln Glu Leu Ser Pro Arg Glu Pro Val Leu  
1 5 10 15  
Pro Pro Gln Lys Met Gly Pro Met Glu Lys Phe Trp Asn Lys Phe Leu  
20 25 30  
Glu Asn Lys Ser Pro Trp Arg Lys Met Val His Gly Val Tyr Lys Lys

35                      40                      45  
 Ser Ile Phe Val Phe Thr His Val Leu Val Pro Val Trp Ile Ile His  
 50                      55                      60  
 Tyr Tyr Met Lys Tyr His Val Ser Glu Lys Pro Tyr Gly Ile Val Glu  
 65                      70                      75                      80  
 Lys Lys Ser Arg Ile Phe Pro Gly Asp Thr Ile Leu Glu Thr Gly Glu  
 85                      90                      95  
 Val Ile Pro Pro Met Lys Glu Phe Pro Asp Gln His His  
 100                      105  
  
 <210> 1041  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1041  
 Ala Ser Xaa His Gln Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro  
 1                      5                      10                      15  
 Pro Arg Cys Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu  
 20                      25                      30  
 Phe Gly Thr Arg Ser Val Ser Gly Ala Asp Gly Gly Ser Ala Ala Cys  
 35                      40                      45  
 Ser Trp Lys Phe Arg Leu Gly Cys Leu Leu Gly Ala Met Glu Ser Asp  
 50                      55                      60  
 Phe Tyr Leu Arg Tyr Tyr Val Gly His Lys Gly Lys Phe Gly His Glu  
 65                      70                      75                      80  
 Phe Leu Glu Phe Glu Phe Arg Pro Asp Gly Lys Leu Arg Tyr Ala Asn  
 85                      90                      95  
 Asn Ser Asn Tyr Lys Asn Asp Val Met Ile Arg Lys Glu Ala Tyr Val  
 100                      105                      110  
 His Lys Ser Val Met Glu Glu Leu Lys Arg Ile Ile Asp Asp Ser Glu  
 115                      120                      125

Ile Thr Lys Glu Asp Asp Ala Leu Trp Pro Pro Pro Asp Arg Val Gly  
 130 135 140  
 Arg Gln Glu Leu Glu Ile Val Ile Gly Asp Glu His Ile Ser Phe Thr  
 145 150 155 160  
 Thr Ser Lys Ile Gly Ser Leu Ile Asp Val Asn Gln Ser Lys Asp Pro  
 165 170 175  
 Glu Gly Leu Arg Val Phe Tyr Tyr Leu Val Gln Asp Leu Lys Cys Leu  
 180 185 190  
 Val Phe Ser Leu Ile  
 195

&lt;210&gt; 1042

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1042

Ala Gly Phe Gly Ser Gln Xaa Leu Phe Val Asp Cys Cys Asp Arg His  
 1 5 10 15

Leu Thr Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr  
20 25 30  
Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile  
35 40 45  
Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala  
50 55 60  
Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Xaa  
65 70 75 80  
Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Xaa Gly Gly Met Gln  
85 90 95  
Ile Phe Xaa Lys Thr Leu Thr Gly Lys Thr Xaa Thr Leu Glu  
100 105 110

<210> 1043  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 1043  
Leu His Gln Pro Ala Lys Met Ala Met Gln Ala Ala Lys Arg Ala Asn  
1 5 10 15  
Ile Arg Leu Pro Pro Glu Val Asn Arg Ile Leu Tyr Ile Arg Asn Leu  
20 25 30  
Pro Tyr Lys Ile Thr Ala Glu Glu Met Tyr Asp Ile Phe Gly Lys Tyr  
35 40 45  
Gly Pro Ile Arg Gln Ile Arg Val Gly Asn Thr Pro Glu Thr Arg Gly  
50 55 60  
Thr Ala Tyr Val Val Tyr Glu Asp Ile Phe Asp Ala Lys Asn Ala Cys  
65 70 75 80  
Asp His Leu Ser Gly Phe Asn Val Cys Asn Arg Tyr Leu Val Val Leu  
85 90 95  
Tyr Tyr Asn Ala Asn Arg Ala Phe Gln Lys Met Asp Thr  
100 105

<210> 1044  
<211> 16

<212> PRT

<213> Homo sapiens

<400> 1044

Lys Leu Ile Gln Val Gly Lys Leu Asp Arg Thr Phe His Leu Ser Tyr  
1 5 10 15

<210> 1045

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1045  
Ser Ser Xaa Pro Thr Pro Pro Ser Ser Cys Leu Xaa Pro Pro Gly Xaa  
1 5 10 15

Arg Pro Xaa Asp Ser Thr Xaa Val Pro Ala Asn Ser Met Arg Leu Lys  
20 25 30

Tyr Gln His Thr Gly Xaa Val Leu Asp Cys Xaa Phe Tyr Gly Pro Xaa  
35 40 45

Xaa Ala Trp Ser Xaa Gly Leu Asp His Gln Leu Lys Met His Asp Leu  
     50                    55                    60  
 Thr Leu Ile Lys Lys Ile Ser Trp Thr His Xaa Ala Leu Xaa Asp Val  
     65                    70                    75                    80  
 Leu Asn Thr Val Arg Ser Glu Leu Xaa Trp Xaa Trp Lys Leu Gly Leu  
                     85                    90                    95  
 Ala Ser Xaa Pro  
             100

<210> 1046

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1046

Phe Ile Ser Val Ser Glu Lys Ser Lys Asp Arg Gly Ser Asn Thr Ile  
     1                    5                    10                    15  
 Gly Ala Arg Leu Asn Arg Val Glu Asp Lys Val Thr Gln Leu Asp Gln  
             20                    25                    30  
 Arg Leu Ala Leu Ile Thr Asp Met Leu His Gln Leu Leu Ser Leu His  
             35                    40                    45  
 Gly Gly Ser Thr Pro Glu Pro Thr Val Arg Gly Ala Pro Xaa Xaa Asn  
     50                    55                    60  
 Pro Ser Pro Ser Pro Ser Ser Gln Pro Asn Thr Gln Lys Gly Thr Ala  
     65                    70                    75                    80  
 Thr Phe Pro Cys Gln Leu Leu Ser Arg Arg Glu Val Thr Val Pro Thr

	85	90	95
Gln Asp Arg Gly Ser Phe Trp Ala Leu His Arg Ile Glu Xaa Asn Asn			
	100	105	110

Leu Trp

<210> 1047

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1047

Asp	Arg	Phe	Ser	Gly	Ser	Lys	Ser	Ala	Ser	Thr	Ala	Ser	Leu	Thr	Ile
1				5						10				15	

Ser	Gly	Leu	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ser	Ser	Xaa
		20						25					30		

Thr	Ser	Ser	Ile	Ser	Tyr	Val	Phe	Gly	Thr	Gly	Thr	Lys	Val	Thr	Val
		35						40				45			

Leu Val Gln Pro Lys Ala Asn Pro Thr Val His Ser Cys Phe Pro Pro

50 55 60  
Ser Ser Leu Arg Thr Ser Lys Pro Asn Lys Gly Asn Tyr Val Phe Trp  
65 70 75 80  
Asn His Tyr Phe Xaa Pro Gly Xaa Xaa Xaa Lys Cys  
85 90

<210> 1048

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048

Arg Gly Arg Gly Lys Arg Xaa Pro Asp Xaa Lys Pro Pro Ala Leu Pro  
1 5 10 15

Arg Pro Ile Xaa Asn Leu Glu Val Glu Phe Thr Lys Ile Phe Xaa Xaa  
20 25 30

Asn Gly Met Gly Arg Ile Xaa Xaa Trp Glu Lys Val Cys Tyr Met Leu  
35 40 45

Pro Xaa Asn Ser Gly Xaa Lys Tyr Val Lys Trp Lys Xaa Glu Ile Xaa  
50 55 60

Pro Thr Trp Asp Glu Gly Cys Gly Ser Cys Thr Gly Xaa Leu Pro Lys  
65 70 75 80

Arg Xaa Pro Pro Trp Ala Pro Gly Gly Met Xaa

85

90

&lt;210&gt; 1049

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

Pro Gly Gln Ser Pro Glu Leu Gln Thr Met Ser Val Ser Phe Leu Ile  
1 5 10 15

Phe Leu Pro Val Leu Gly Leu Pro Trp Gly Val Leu Ser Gln Val Gln  
20 25 30

Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln Thr Leu Ser  
35 40 45

Leu Thr Cys Ala Ile Ser Gly Asp Thr Val Ser Arg Asn Ser Ala Gly  
50 55 60

Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly  
65 70 75 80

Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Val Ser Val  
85 90 95

Lys Ser Arg Ile Thr Ile Asn Ala Asp Ser Thr Lys Asn Gln Phe Ser  
100 105 110

Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Leu Tyr Tyr Cys  
115 120 125

Ala Arg Asp Arg Gly Ser Trp Ser Asp Glu Ala Glu Gly Leu Pro Pro  
130 135 140

Arg Tyr Phe Tyr Tyr  
145

&lt;210&gt; 1050

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1050

Ala Gln Leu Leu Thr Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val  
 1 5 10 15

Ala Ala Ala Thr Ser Ala His Ser Gln Val Gln Leu Val Gln Ser Gly  
 20 25 30

Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala  
 35 40 45

Ser Gly Tyr Thr Phe Thr Ser Tyr Asp Ile Asn Trp Val Arg Gln Ala  
 50 55 60

Thr Gly Gln Gly Leu Glu Trp Val Gly Trp Met Asn Pro Asn Ser Ala  
 65 70 75 80

Asn Thr Gly Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg  
 85 90 95

Asn Thr Ser Ile Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser  
 100 105 110

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa Arg Arg Trp Glu Leu  
 115 120 125

Leu Gly Met Met Trp Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val  
 130 135 140

Thr Val  
 145

&lt;210&gt; 1051

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1051

Gly Arg Gly Ile Ser Gly Leu Leu Phe Leu Ser Ser Thr Ile Met Gly  
 1 5 10 15

Ser Thr Ala Ile Leu Ala Leu Leu Ala Val Leu Gln Gly Val Cys  
 20 25 30

Gly Glu Val Gln Leu Val His Ala Gly Gly Glu Met Arg Lys Ala Arg  
 35 40 45

Gly Val Ser Glu Asp Leu Leu  
 50 55

<210> 1052  
<211> 144  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (134)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1052  
Thr Met Ala Trp Thr Pro Leu Leu Phe Leu Thr Leu Leu Leu His Cys  
1 5 10 15



Thr Gly Ser Leu Ser Gln Leu Val Leu Thr Gln Ser Pro Ser Ala Ser  
                   20                  25                  30  
 Ala Ser Leu Gly Ala Ser Val Xaa Leu Thr Cys Thr Leu Ser Ser Gly  
                   35                  40                  45  
 His Xaa Asp Tyr Ala Ile Ala Trp His Gln Gln Gln Pro Glu Lys Gly  
                   50                  55                  60  
 Pro Arg Tyr Leu Leu Xaa Leu Asn Thr Asp Gly Ser His Arg Lys Gly  
                   65                  70                  75                  80  
 Asp Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Ala Glu Arg  
                   85                  90                  95  
 Tyr Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Xaa Ala Asp Tyr Tyr  
                   100                  105                  110  
 Cys Gln Asn Trp Gly Phe Gly Xaa Val Phe Gly Xaa Arg Asp Gln Xaa  
                   115                  120                  125  
 Glu Arg Pro Lys Ser Xaa Gln Gly Cys Pro Leu Gly Gln Ser Val Pro  
                   130                  135                  140

&lt;210&gt; 1053

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1053

Gly Thr Ser Ser Pro Ser Leu Ala Glu Asp Pro Phe Gln Gly Gly Gln  
   1                  5                  10                  15  
 Val Cys Ala Pro Ser Arg Ala Ile Gln Xaa Ile Cys Leu Pro Ser Met  
                   20                  25                  30  
 Tyr Asn Asp Pro Gln Phe Gly Thr Ser Cys Glu Ile Thr Gly Leu Trp  
                   35                  40                  45  
 Lys Lys Glu Phe

50

&lt;210&gt; 1054

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1054

Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln Arg Glu  
1 5 10 15

Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val Lys Gly  
20 25 30

Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg Asp  
35 40 45

Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu  
50 55 60

Glu Pro Lys  
65

&lt;210&gt; 1055

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1055

Glu Ala Glu Xaa Lys Met Ser Ser Tyr Ala Phe Phe Val Gln Thr Cys  
1 5 10 15

Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn Phe Ser  
20 25 30

Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Ala Lys  
35 40 45

Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala Arg Tyr  
50 55 60

Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Thr Lys Lys

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<210> 1057
<211> 118
<212> PRT
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<213> Homo sapiens

<400> 1057

Lys Leu Arg Gln Ala Phe Gln Gly Asp Ser Ile Pro Val Phe Asp Leu  
1 5 10 15  
Leu Ile Leu Gly Val Gly Pro Asp Gly His Thr Cys Ser Leu Phe Pro  
20 25 30  
Asp His Pro Leu Leu Gln Glu Arg Glu Lys Ile Val Ala Pro Ile Ser  
35 40 45  
Asp Ser Pro Lys Pro Pro Pro Gln Arg Val Thr Leu Thr Leu Pro Val  
50 55 60  
Leu Asn Ala Ala Arg Thr Val Ile Phe Val Ala Thr Gly Glu Gly Lys  
65 70 75 80  
Ala Ala Val Leu Lys Arg Ile Leu Glu Asp Gln Glu Glu Asn Pro Leu  
85 90 95  
Pro Ala Ala Trp Ser Ser Pro Thr Pro Gly Asn Cys Ala Gly Leu Gly  
100 105 110  
Arg Gly Gly Arg Arg Phe  
115

<210> 1058

<211> 104

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (78)

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<220>

<221> SITE

<222> (91)

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<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058

Val Xaa Xaa Glu Pro His Gly Xaa Thr Leu Val Phe Ala Arg His Gly  
1 5 10 15

Arg Glu Arg Leu Gly Xaa Gly Asp Gly Ala Ala Gln Glu Gly Pro Tyr  
20 25 30

Gly Arg Pro Ala Thr Ser Lys Gln Ala Ile Leu Ala Ala Gln Arg Leu  
35 40 45

Gly Glu Asp Val Glu Thr Ser Asn Lys Trp Ala Ala Gly Xaa Asn Lys  
50 55 60

Gln His Ser Ile Thr Lys Asn Thr Ala Lys Leu Asp Arg Xaa Thr Glu  
65 70 75 80

Cys Cys Thr Met Thr Gly Asp Pro Glu Val Xaa Gln Val Ile Gln Gln  
85 90 95

Val Gly Xaa Xaa Arg Ala Tyr Thr  
100

<210> 1059  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 1059  
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
1 5 10 15  
Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Val Leu Pro Leu Arg  
20 25 30  
Glu Ser Asn Cys Ile Pro Ala Ser Val Ser Phe Leu Cys Val Ile Ser  
35 40 45

<210> 1060  
<211> 100  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1060  
Arg Asn Val Thr His Ile Asp Gln Ala Leu Gln Glu Ala His Arg Val  
1 5 10 15  
Leu Lys Pro Gly Gly Arg Phe Leu Cys Leu Glu Phe Ser Gln Val Asn

20 25 30  
Asn Pro Leu Ile Ser Arg Leu Tyr Asp Leu Tyr Ser Phe Gln Val Ile  
35 40 45  
Pro Val Leu Gly Glu Val Ile Ala Gly Asp Trp Lys Ser Tyr Gln Tyr  
50 55 60  
Leu Val Glu Ser Ile Arg Arg Phe Pro Xaa Xaa Glu Glu Phe Xaa Asp  
65 70 75 80  
Met Ile Glu Asp Ala Gly Phe His Lys Val Thr Tyr Glu Ser Leu Thr  
85 90 95  
Ser Gly Xaa Val  
100

<210> 1061

<211> 137

<212> PRT

<213> Homo sapiens

<220>

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (84)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (99)  
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<220>  
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<222> (105)  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1061

Phe	Gly	Thr	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg
1				5				10				15			

Val	Ala	Xaa	Val	Xaa	Val	Ser	Ser	Val	Ser	Arg	Leu	Leu	Xaa	Arg	Xaa
			20					25					30		

Xaa	Pro	Xaa	Leu	Gly	Arg	Ser	Met	Ser	Ser	Gly	Ala	His	Gly	Glu	Glu
		35					40					45			

Xaa	Ser	Xaa	Xaa	Met	Trp	Lys	Xaa	Leu	Thr	Phe	Phe	Val	Ala	Leu	Pro
	50					55				60					

Gly	Val	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Val	Tyr	Leu	Lys	Ser	His	His	Gly
65						70				75					80

Glu	His	Glu	Xaa	Pro	Glu	Phe	Ile	Val	Tyr	Pro	Tyr	Leu	Arg	Ile	Arg
				85					90					95	

Xaa	Lys	Xaa	Phe	Pro	Trp	Gly	Asp	Xaa	Xaa	His	Thr	Phe	Xaa	His	Asn
			100					105					110		

Pro	Tyr	Val	Xaa	Pro	Xaa	Pro	Leu	Xaa	Thr	Glu	Xaa	Tyr	Xaa	Glu	Xaa
		115					120					125			

Leu	Xaa	Ile	Thr	Gly	Xaa	Thr	Gly	Pro
130						135		

&lt;210&gt; 1062

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
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 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1062  
 Gly Leu Xaa Phe Xaa Gly Met His Xaa Met Ala Xaa Thr His Trp Pro  
     1                    5                    10                    15  
 Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala  
                     20                    25                    30  
 Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa  
                     35                    40                    45  
 Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val

50

55

60

&lt;210&gt; 1063

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1063

Thr Tyr Xaa Pro Xaa Ser Xaa Gly Ile Cys Arg Val Ser Leu Xaa Leu  
1 5 10 15

Pro Gln Gln Trp Xaa Thr Phe Ala Lys Ile Trp Tyr Ile Leu Asp Gly  
20 25 30

Lys Met Xaa Pro Pro Gly Lys Leu Ala Ala Met Xaa Ser Ile Arg Leu  
35 40 45

Xaa Gly Leu His Xaa Pro Ala Tyr His Ala Leu Thr Asp Cys Gly Asp  
50 55 60

His Val Cys Tyr  
65

&lt;210&gt; 1064

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1064

Arg Asp Ile Glu Pro Gly Glu Glu Ile Ser Xaa Tyr Tyr Gly Asp Gly  
1 5 10 15

Phe Phe Gly Glu Asn Asn Glu Phe Cys Glu Cys Tyr Thr Cys Glu Arg  
20 25 30

Arg Gly Thr Gly Ala Phe Lys Ser Arg Val Gly Leu Pro Ala Pro Ala  
35 40 45

Pro Val Ile Asn Ser Lys Tyr Gly Leu Arg Glu Thr Asp Lys Arg Leu  
50 55 60

Asn Arg Leu Lys Lys Leu Gly Asp Ser Ser Lys Asn Ser Asp Ser Gln  
65 70 75 80

Ser Val Ser Ser Asn Thr Asp Ala Asp Thr Thr Gln Glu Lys Asn Asn  
85 90 95

Ala Thr Ser Asn Arg Lys Ser Ser Val Gly Val Lys Lys Asn Ser Lys

100 105 110  
Ser Arg Thr Leu Thr Arg Gln Ser Met Ser Arg Ile Pro Ala Ser Ser  
115 120 125  
Asn Ser Thr Ser Ser Lys Leu Asn Ser Tyr Lys  
130 135

<210> 1065

<211> 78

<212> PRT

<213> Homo sapiens

<220>

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<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1065  
 Gly Thr Cys His Xaa Xaa Pro Trp Gly Pro Met Glu Pro Xaa Lys Arg  
     1                    5                    10                    15  
 Pro Trp Arg Leu Leu Met Asp Thr Phe Xaa Cys Lys Leu Leu Pro Trp  
           20                    25                    30  
 Gly Val Lys Val Xaa His His Pro Xaa Trp Xaa Leu Gln Asp Arg Val  
       35                    40                    45  
 Ser Glu Glu Thr Trp Val Xaa Trp Glu Lys Arg Gln Gln Xaa Ala Xaa  
     50                    55                    60  
 Gly Pro Thr Leu Ser Xaa Glu Leu Leu Gln Xaa Leu Arg Glu  
     65                    70                    75

<210> 1066  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1066  
 Leu Glu Arg His His Leu Glu Phe Gly Lys Thr Leu Leu Arg Asp Glu  
     1                    5                    10                    15

Ser Leu Asn Ile Phe Gln Asn Leu Asn Arg Arg Gln His Glu His Ala  
20 25 30  
Ile His Met Met Asp Ile Ala Ile Ile Ala Thr Asp Leu Ala Leu Tyr  
35 40 45  
Phe Lys Lys Arg Thr Met Phe Gln Lys Ile Val Asp Gln Ser Lys Thr  
50 55 60  
Tyr Glu Ser  
65

<210> 1067  
<211> 98  
<212> PRT  
<213> Homo sapiens  
  
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<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
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<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1067

Ser Ala Arg Xaa Trp Asn Thr Xaa Trp Asn Pro Lys Asn Ser Asp Ser  
1 5 10 15

Gly Lys Tyr Trp Gly Lys Ser Trp Leu Pro Xaa Asn Tyr Thr Leu Val  
20 25 30

Asp Met Lys Ile Xaa Phe Gly Val Asp Ile Thr Thr Lys Glu Met Val  
35 40 45

Leu Ala Asp Asp Ser Trp Arg Leu Ala Ile Thr Ser Ile Glu Ala Asn  
50 55 60

Ser Lys Asp Xaa Xaa Ser Tyr Trp Xaa Leu Lys Glu Val Thr Pro Glu  
65 70 75 80

Gly Leu Xaa Met Val Lys Lys Ser Phe Glu Ala Gly His Gly Asp Ser  
85 90 95

Cys Leu

<210> 1068

<211> 167

<212> PRT

<213> Homo sapiens

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<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1068  
Ser Val Ser Leu Met Ser Asp Leu Glu Gly Asn Thr Lys Ser Arg Val  
1 5 10 15  
Arg Leu Leu Val Leu Val Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu  
20 25 30  
Gly Glu Thr Ile Ile Gly Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys  
35 40 45  
Glu Gly Ser Pro Thr Pro Pro Val Gln Leu Glu Arg Ser Tyr Asn Ile

50                      55                      60  
 Leu Asn Gln Xaa Xaa Pro Leu Ala Pro Pro Thr Ser Gly Ser Thr Cys  
 65                      70                      75                      80  
 Ser Pro Leu Lys Asn Ile Ser His Arg Thr His Xaa Val Tyr Xaa Leu  
                     85                      90                      95  
 Val Pro Pro Ser Asn Lys Xaa Gly Asn Xaa Phe Leu Gln Leu His Gly  
                     100                      105                      110  
 Gly Leu Xaa Asn Leu Pro Pro Ile Xaa Phe Gly Pro Phe Phe Xaa Leu  
                     115                      120                      125  
 Pro Gly Gly Val Phe Phe Phe Thr Pro Leu Ile Xaa Xaa Xaa Xaa Xaa  
                     130                      135                      140  
 Leu Xaa Xaa Xaa Xaa Pro Gly Glu Arg Xaa Asn Pro Xaa Lys Lys Gly  
 145                      150                      155                      160  
 Lys Pro Gly Thr Xaa Thr Leu  
                     165

&lt;210&gt; 1069

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1069

Val Leu Pro Pro Leu Leu Ile Met Leu Val Ile Tyr Ile Lys Ile Phe  
 1                      5                      10                      15  
 Leu Val Ala Cys Arg Gln Leu Gln Arg Thr Glu Leu Met Asp His Ser  
                     20                      25                      30  
 Arg Thr Thr Leu Gln Arg Glu Ile His Ala Ala Lys Ser Leu Ala Met  
                     35                      40                      45  
 Ile Val Gly Ile Phe Ala Leu Cys Trp Leu Pro Val His Ala Val Asn  
                     50                      55                      60  
 Cys Val Thr Leu Phe Gln Pro Ala Gln Gly Lys Asn Lys Pro Lys Trp  
 65                      70                      75                      80  
 Ala Met Asn Met Ala Ile Leu Leu Ser His Ala Asn Ser Val Val Asn  
                     85                      90                      95  
 Pro Ile Val Tyr Ala Tyr Arg Asn Arg Asp Phe Arg Tyr Thr Phe His  
                     100                      105                      110

Lys Ile Ile Ser Arg Tyr Leu Leu Cys Gln Ala Asp Val Lys Ser Gly  
115 120 125

Asn Gly Gln Ala Gly Val Gln Pro Ala Leu Gly Val Gly Leu  
130 135 140

<210> 1070

<211> 44

<212> PRT

<213> Homo sapiens

<220>

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<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (22)

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<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (30)

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1070

Ala Glu Arg Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Xaa Ile  
1 5 10 15

Arg Ala Arg Gly Gln Xaa Pro Leu Xaa Leu Gln Xaa His Xaa Arg Trp  
20 25 30

Leu His Xaa Xaa His Arg Xaa Pro Gly Ala Arg Xaa  
35 40

<210> 1071

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1071

Met Glu Ala Ala Asp Tyr Arg Xaa Ala Ser Ser Gln Gln Gly Leu Ala  
1 5 10 15

Tyr Ala Thr Glu Ala Val Tyr Glu Ser Ala Glu Ala Pro Gly His Tyr  
20 25 30

Pro Ala Glu Asp Ser Thr Tyr Asp Glu Tyr Glu Asn Asp Leu Gly Ile  
35 40 45

Thr Ala Val Ala Leu Tyr Xaa Tyr Gln Ala Ala Gly Asp Asp Glu Ile  
50 55 60

Ser Phe Xaa Pro Asp Asp Ile Ile Thr Asn Ile Glu Met Ile Xaa Asp  
65 70 75 80

Gly Trp Trp Arg Gly Val Cys Lys Gly Arg Phe Arg Glu Leu Ala Phe  
85 90 95

Ser

<210> 1072

<211> 76

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<220>  
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<220>  
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<222> (69)

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<220>

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072

Pro Cys Lys Asp Ile Asn Thr Phe Xaa His Gly Asn Lys Arg Arg Phe  
1 5 10 15

Lys Xaa Ile Cys Glu Asn Lys Xaa Trp Lys Pro Leu Gln Gly Asn Leu  
20 25 30

Arg Phe Xaa Xaa Val Phe Phe Phe Gln Xaa Thr Ile Trp Lys Val Xaa  
35 40 45

Xaa Gly Val Ser Xaa Gly Xaa Xaa Xaa Thr Phe Pro Gly Xaa Xaa Xaa  
50 55 60

Gly Leu Lys Xaa Xaa Phe Phe Phe Phe Xaa Lys Arg  
65 70 75

<210> 1073

<211> 115

<212> PRT

<213> Homo sapiens

<220>

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<222> (14)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

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<222> (110)

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<400> 1073

His Lys Gln Phe Ala Ser Leu Glu His Gly Ile Val Pro Xaa Thr Ser  
1 5 10 15

Asp Cys Gln Tyr Leu Phe Pro Ala Lys Val Val Ser Arg Leu Val Xaa  
20 25 30

Trp Val Thr Xaa Ala His Glu Asp Tyr Met Glu Leu His Phe Thr Lys  
35 40 45

Asp Ile Val Asp Ala Gly Leu Ala Gly Asp Thr Asn Leu Tyr Tyr Met  
50 55 60

Ala Leu Ile Glu Arg Gly Thr Ala Lys Leu Gln Ala Ala Val Val Leu  
65 70 75 80

Asn Pro Gly Tyr Ser Ser Ile Pro Pro Val Phe Xaa Leu Cys Leu Asn  
85 90 95

Trp Lys Xaa Glu Lys Thr Asn Ser Asn Xaa Xaa Asn Ile Xaa Gly His  
100 105 110

Gly Gly Arg  
115

<210> 1074

<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
<221> SITE  
<222> (13)  
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<220>  
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<400> 1074  
Ser Ala His Xaa Cys Leu Ile Asn Ala Thr Ser Thr Xaa Thr Glu Phe  
1 5 10 15  
Leu Lys Xaa Leu Val Leu Pro Xaa Ile Gly Ser Phe Thr Ile Ile Asp  
20 25 30  
Gly Asn Gln Val Xaa Gly Gln Asn Xaa Gly Asn Asn Phe Phe Leu Gln  
35 40 45  
Lys Ile Leu Ser Ala Xaa Thr Asp  
50 55

<210> 1075  
<211> 146  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1075  
Gly Thr Ser Glu Thr Pro Ala Gly Thr Ile Leu Tyr His Ala His Leu  
1 5 10 15

Asp Ile Glu Ala Phe Thr Met Asp Arg Glu Val Arg Lys Ile Lys Gln  
20 25 30

Gly Leu Gly Leu Lys Phe Ala Glu Xaa Val Tyr Thr Gly Phe Trp His  
35 40 45

Ser Pro Glu Cys Glu Phe Val Arg His Cys Ile Ala Lys Ser Gln Glu  
50 55 60

Arg Val Glu Gly Lys Val Gln Val Ser Val Leu Lys Gly Gln Val Tyr  
65 70 75 80

Ile Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr Asn Glu Glu Leu Val  
85 90 95

Ser Met Asp Glu Asn Leu Met His Ile Ser Tyr Xaa Ala Gly Ile Leu  
100 105 110

Glu Xaa Pro Lys Asn Gln Ala Leu Xaa Val Leu Asn Glu Asp Pro Xaa  
115 120 125

Pro Ser Gln Ser Pro Asn Asn Pro Asp Ile Ser Glu Ile Glu Phe Lys  
130 135 140

Lys Gly  
145

<210> 1076

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1076

Trp Ile Pro Arg Ala Ala Gly Arg His Val Gly Val Cys Gly Ser Gly  
1 5 10 15

Gly Arg Cys Ser Gly Leu Arg Gly Leu Ala Glu Thr His Pro Phe Ser  
20 25 30

Val Ala Ala Pro Ser Ser Ala Leu Thr Ala Gly Arg Pro Thr Ala Val  
35 40 45

His Pro Gly Glu Ser Thr Val Arg Thr Ile Ala Met Asp Gly Thr Glu  
50 55 60

Gly Leu Val Arg Gly Gln Lys Val Leu Asp Ser Gly Ala Pro Ile Lys  
65 70 75 80

Ile Pro Val Gly Pro Glu Thr Leu Gly Arg Ile Met Asn Val Ile Gly  
85 90 95

Glu Pro Ile Asp Glu Arg Gly Pro Ile Lys Thr Lys Gln Phe Ala Pro  
100 105 110

Ile His Ala Glu Ala Pro Glu Phe Met Glu Met Ser Val Glu Gln Glu  
115 120 125

Ile Leu  
130

<210> 1077

<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 1077

Gly Gln Gly Gln Asp Gly Ala Thr Gly Ala Gly Leu Ser Ala His Gln  
1 5 10 15  
Asp Tyr Leu Lys Pro Arg Ala Glu Glu Glu Arg Arg Ile Ala Ala Glu  
20 25 30  
Glu Lys Lys Lys Gln Asp Glu Leu Lys Arg Ile Ala Arg Glu Leu Ala  
35 40 45  
Glu Asp Asp Ser Ile Leu Lys  
50 55

<210> 1078  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (45)  
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<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078

Glu Arg Gln Arg Arg Gly Leu His Val Gln Arg Leu Ser Gly His Leu  
1 5 10 15  
Arg Val Gln Asp Tyr Asn Ser Arg Gln Gly Ala Gln Asn Asp Arg Pro  
20 25 30  
Arg Gln Arg Arg Leu Thr Arg Ile Ser Met Ile Leu Xaa Arg Leu Xaa  
35 40 45  
Arg Phe Ser Ser Val Ile Arg Ser Ala Val Ser Val His Leu Arg Arg  
50 55 60  
Asn Ile Gly Val Thr Ala Val  
65 70

<210> 1079  
<211> 74  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (1)  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079  
Xaa Gly Ala Val Ile Ile Xaa Phe Arg Ser Lys Ile Lys Xaa Ala Leu  
1 5 10 15  
Ala His Phe Leu Ser Lys Xaa Thr Pro Thr Pro Leu Ile Pro Ile Leu  
20 25 30  
Val Ile Met Xaa Asn Xaa Ile Leu Leu Xaa Xaa Pro Ile Ala Leu Gly  
35 40 45  
Val Ser Leu Ile Ala Tyr Ile Thr Xaa Gly His Xaa Leu Met His Leu  
50 55 60  
Ile Gly Xaa Val Pro Tyr Asn Ile Asn His  
65 70

<210> 1080  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1080

Thr Asp Tyr Gly Xaa Thr Ala Thr Lys Gln Xaa Val Xaa Ala Gly Thr  
1 5 10 15

Phe Phe Trp Ser Val Val Ile Pro Xaa Leu Arg Arg Ile Leu Thr Ile  
20 25 30

Leu Gln Trp Leu Thr Xaa Pro  
35

<210> 1081

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1081

Gly Arg Xaa Xaa Lys Val Leu Lys Arg Leu Arg Leu Gln Lys Arg Gly  
1 5 10 15

Thr Gly Gly Val Asp Thr Ala Ala Val Gly Gly Val Phe Asp Val Ser  
20 25 30

Asn Ala Asp Arg Leu Gly Phe Ser Glu Val Glu Leu Val Gln Met Val  
35 40 45

Val Asp Gly Val Lys Leu Leu Ile Glu Met Glu Gln Arg Leu Glu Gln  
50 55 60

Gly Gln Ala Ile Asp Asp Leu Met Pro Ala Gln Lys  
65 70 75

&lt;210&gt; 1082

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1082

Pro Val Thr Asn Glu Gly Ser Arg Asp Trp Thr Asp Ala Ala Met Pro  
1 5 10 15

Leu Arg Leu Asp Ile Lys Arg Lys Leu Thr Ala Arg Ser Asp Arg Val  
20 25 30

Lys Ser Val Asp Leu His Pro Thr Glu Pro Trp Met Leu Ala Ser Leu  
35 40 45

Tyr Asn Gly Ser Val Cys Val Trp Asn His Glu Thr Gln Thr Leu Val  
50 55 60

Lys Thr Phe Glu Val Cys Asp Leu Pro Val Arg Ala Ala Lys Phe Val  
65 70 75 80

Ala Arg Lys Asn Trp Val Val Thr Gly Ala Asp Asp Met Gln Ile Arg  
85 90 95

Val Phe Asn Tyr Asn Thr Leu Glu Arg Val His Met Phe Glu Ala His  
100 105 110

Ser Asp Tyr Ile Arg Cys Ile Ala Val His Pro Thr Gln Pro Phe Ile  
115 120 125

Leu Thr Ser Ser Asp Asp Met Leu Ile Lys Leu Trp Asp Trp Asp Lys  
130 135 140

&lt;210&gt; 1083

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1083

Glu Met Xaa Arg Ser Val Ala Leu Ala Val Leu Ala Leu Ser Leu  
1 5 10 15

Ser Gly Leu Glu Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser  
20 25 30

Arg His Pro Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val  
35 40 45

Ser Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly  
50 55 60

Glu Arg Ile Glu Lys Val Glu His Ser Asp Leu Xaa Phe Ser Lys Asp  
65 70 75 80

Trp Xaa Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys  
85 90 95

Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys  
100 105 110

Ile Val Lys Trp Asp Arg Asp Met  
115 120

<210> 1084

<211> 149

<212> PRT

<213> Homo sapiens

<220>

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<400> 1084

Pro Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Thr Ala Ala Arg Arg  
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Xaa Gln Lys Gly Ile Pro Glu Ala Asp Ser Ile Arg Ala Glu Met Ser  
20 25 30

Arg Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser Gly Leu  
35 40 45

Glu Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro  
50 55 60

Ala Glu Ser Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe  
65 70 75 80

His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile  
85 90 95

Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe  
100 105 110

Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr  
115 120 125

Ala Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys  
130 135 140

Trp Asp Arg Asp Met  
145

<210> 1085

<211> 176

<212> PRT

<213> Homo sapiens

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<400> 1085

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Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Arg	Gly	Ser
			20					25					30		
Lys	Leu	Thr	Tyr	Ala	Cys	Met	Xaa	Arg	His	Ser	Ser	Ser	Ile	Val	Ser
		35					40					45			
Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu
	50					55					60				
Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Pro	Pro	Phe
65					70					75					80
Ala	Ser	Trp	Arg	Asn	Ser	Xaa	Xaa	Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln
			85						90					95	
Gln	Leu	Arg	Xaa	Leu	Asn	Gly	Xaa	Trp	Asp	Ala	Pro	Xaa	Xaa	Gly	Ala
	100						105							110	
Leu	Ser	Ala	Ala	Xaa	Glu	Val	Val	Thr	Xaa	Ser	Val	Thr	Ala	Thr	Leu
	115						120					125			
Ala	Ser	Ala	Leu	Ala	Xaa	Ala	Pro	Phe	Ala	Phe	Phe	Pro	Xaa	Phe	Leu

130 135 140  
Ala Xaa Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro  
145 150 155 160  
Leu Gly Phe Arg Phe Ser Ala Leu Arg Xaa Leu Arg Pro Gln Lys Xaa  
165 170 175

<210> 1086

<211> 166

<212> PRT

<213> Homo sapiens

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<400> 1086

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1 5 10 15

Arg Xaa Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser  
20 25 30

Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln  
35 40 45

Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala  
50 55 60

Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr  
65 70 75 80

Asp Arg Pro Ser Gln Gln Leu Xaa Ser Leu Asn Gly Glu Trp Asp Ala  
85 90 95

Pro Cys Xaa Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Arg Ser  
100 105 110

Val Thr Val Thr Leu Ala Ser Ala Leu Ala Pro Xaa Pro Phe Ala Phe  
115 120 125

Phe Pro Ser Phe Leu Ala Thr Phe Ala Gly Phe Pro Arg Gln Ala Xaa  
130 135 140

Asn Arg Gly Leu Pro Leu Gly Phe Arg Phe Ser Ala Leu Arg His Leu  
145 150 155 160

Asp Pro Lys Lys Leu Asp  
165

<210> 1087

<211> 154

<212> PRT

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<400> 1087

Pro Thr Arg Pro Pro Thr Arg Pro Lys Lys Lys Lys Lys Lys Lys Lys  
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser Lys Gly Ser Lys  
20 25 30

Leu Thr Tyr Ala Cys Met Gln Xaa His Xaa Ser Pro Ile Val Ser Pro  
35 40 45

Lys Phe Asn Xaa Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn  
50 55 60

Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala  
65 70 75 80

Ser Trp Xaa Xaa Xaa Xaa Lys Ala Arg Thr Asp Arg Pro Ser Gln Gln  
85 90 95

Leu Arg Xaa Leu Asn Gly Lys Trp Asp Ala Pro Cys Tyr Gly Ala Leu

100 105 110  
Xaa Pro Xaa Gly Val Val Val Thr Pro Xaa Val Xaa Arg Tyr Thr Cys  
115 120 125  
Xaa Arg Pro Xaa Ala Arg Ser Phe Arg Phe Leu Pro Phe Leu Ser Arg  
130 135 140  
Gln Xaa Xaa Pro Xaa Phe Pro Val Xaa Leu  
145 150

<210> 1088  
<211> 166  
<212> PRT  
<213> Homo sapiens

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<400> 1088

Phe Phe Ile Asn His Gly Cys Ser Gln Lys Lys Lys Xaa Lys Xaa Lys  
1 5 10 15

Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr  
20 25 30

Ala Cys Met Xaa Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn  
35 40 45

Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val  
50 55 60

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg  
65 70 75 80

Asn Ser Glu Xaa Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser  
85 90 95

Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala  
100 105 110

Gly Val Val Val Thr Arg Ser Val Thr Xaa Thr Leu Xaa Ser Ala Leu  
115 120 125

Thr Pro Xaa Pro Phe Ala Phe Phe Pro Ser Phe Leu Pro Arg Ser Xaa  
130 135 140

Gly Phe Pro Ser Ser Ser Lys Ser Gly Ala Pro Leu Arg Val Xaa Ile  
145 150 155 160

Xaa Gly Phe Thr Gly Pro  
165

<210> 1089  
<211> 104  
<212> PRT  
<213> Homo sapiens

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<400> 1089  
Asn Lys Lys Lys Lys Lys Arg Ala Ala Ala Leu Glu Asp Pro Lys Leu  
1 5 10 15

Thr Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Val Ser Pro Lys  
20 25 30

Phe Asn Ser Leu Gly Arg Arg Phe Thr Thr Ser Val Thr Gly Lys Thr  
35 40 45

Leu Ala Leu Pro Asn Leu Ile Arg Leu Ala Ala His Pro Pro Phe Ala  
50 55 60

Ser Trp Arg Asn Ser Glu Glu Ala Arg Xaa Asp Arg Pro Ser Gln Gln

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<210> 1090
<211> 129
<212> PRT
<213> Homo sapiens

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<400> 1090  
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1 5 10 15

Lys Lys Lys Xaa Gly Gly Arg Xaa Xaa Gly Ser Lys Leu Thr Tyr Ala  
20 25 30

Cys Met Xaa Arg Xaa Ser Ser Ser Ile Xaa Ser Pro Lys Phe Asn Ser  
35 40 45

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr  
50 55 60

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn  
65 70 75 80

Ser Glu Xaa Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Xaa Ser Leu

	85		90		95										
Asn	Gly	Xaa	Trp	Asp	Ala	Pro	Cys	Ser	Gly	Ala	Leu	Ser	Ala	Ala	Gly
		100					105						110		
Val	Xaa	Val	Thr	Xaa	Ser	Xaa	Thr	Val	Thr	Leu	Ala	Ser	Ala	Leu	Ala
		115					120						125		

Pro

&lt;210&gt; 1091

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

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&lt;221&gt; SITE

&lt;222&gt; (46)



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<400> 1091  
Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr  
1 5 10 15

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser  
20 25 30  
Thr His Ala Ser Gly Xaa Xaa Xaa Xaa Gly Xaa Xaa Ser Xaa Xaa Xaa  
35 40 45  
Arg Lys Ile Val Gln Arg Gly Xaa Asn Glu Cys Gly Ser Arg Gly Xaa  
50 55 60  
Pro Xaa Ser Xaa Gly Xaa Xaa Ser Phe Gly Xaa Lys Lys Cys  
65 70 75

<210> 1092

<211> 77

<212> PRT

<213> Homo sapiens

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<400> 1092

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Arg  
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Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser  
20 25 30

Xaa Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg  
35 40 45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala  
50 55 60

Xaa Pro Pro Xaa Xaa Xaa Trp Xaa Ile Pro Lys Gly Pro  
65 70 75

<210> 1093

<211> 93

<212> PRT

<213> Homo sapiens

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<400> 1093

Thr Phe Gln Asn Leu Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly  
1 5 10 15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val  
20 25 30

Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp  
35 40 45

Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Xaa Pro  
 50 55 60

Phe Ala Ala Gly Val Ile Xaa Lys Arg Pro Xaa Arg Ser Pro Phe Pro  
 65 70 75 80

Thr Val Ala Gln Pro Glu Trp Arg Met Gly Arg Ala Leu  
 85 90

&lt;210&gt; 1094

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1094

Xaa Arg Pro Xaa Leu Glu Thr Pro Asp Tyr Arg Glu Ser Trp Tyr Ala  
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Arg  
 20 25 30

Leu Glu Ala Xaa Arg Arg Met Leu Gly Ile Ser Pro  
 35 40

&lt;210&gt; 1095

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

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<400> 1095

Asn	Val	Pro	Cys	Lys	Tyr	Lys	His	Ile	Leu	Ser	Glu	Lys	Lys	Xaa	Lys
1				5					10					15	

Lys	Gly	Gly	Arg	Ser	Xaa	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg
			20					25					30		

Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val
		35					40					45			

Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Lys	Pro	Trp	Ala	Leu	Pro	Asn	Leu
	50					55					60				

Xaa	Xaa	Xaa	Cys	Xaa
				65

<210> 1096

<211> 48

<212> PRT

<213> Homo sapiens

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1 5 10 15

Arg Thr Xaa His Ala Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe  
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa Xaa  
35 40 45

<210> 1097  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097

Lys Xaa Xaa Lys Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr  
1 5 10 15

Ala Xaa Met Arg Arg His Ser Ser Ser Ile Gly Ser Pro Lys Phe Asn  
20 25 30

Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly  
35 40 45

<210> 1098

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1098

Ser Glu Thr Pro Ser Gln Lys Lys Lys Lys Lys Thr Arg Gly Gly Ala  
1 5 10 15

Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile Pro Leu Ala  
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Arg Tyr Pro Thr  
35 40 45

<210> 1099  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1099  
Thr Xaa Xaa Lys Lys Lys Arg Ala Ala Ala Leu Xaa Asp Pro Ser Leu



1 5 10 15  
Arg Thr Pro Cys Met Arg Arg His Asn Ser Ser Ile Gly Ala Pro Lys  
20 25 30  
Phe Asn Ser Leu Ala Arg Arg Leu Gln Arg Leu Thr Gly Lys Thr Leu  
35 40 45  
Ala Leu Pro Asn Leu Ile Xaa Leu Gln Xaa Ile Pro Phe Xaa Gln Leu  
50 55 60  
Xaa Xaa  
65

<210> 1100

<211> 71

<212> PRT

<213> Homo sapiens

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<222> (33)

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<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1100

Met Leu Asn Tyr Phe Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
1 5 10 15

Gly Gly Xaa Ser Xaa Gly Ser Lys Leu Thr Tyr Xaa Cys Met Gln Xaa  
20 25 30

Xaa Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Xaa Leu Ala Val Asp  
35 40 45

Xaa Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg  
50 55 60

Leu Ala Ala His Pro Pro Xaa  
65 70

<210> 1101

<211> 114

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (63)

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (102)

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<220>

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<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1101

Pro Val Ser Arg Arg Ser Xaa Xaa Xaa Lys Lys Xaa Xaa Lys Lys Asn  
1 5 10 15

Ser Lys Ser Phe Ser Xaa Val Leu Leu Xaa Arg Pro Arg Ala His Xaa  
20 25 30

Phe Ser Thr Arg Val Gly Tyr Gln Val Ser Val Pro Asn Ser Pro Tyr  
35 40 45

Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp  
50 55 60

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro  
65 70 75 80

Pro Phe Ala Ser Trp Arg Asn Xaa Glu Lys Gly Arg Xaa Asp Arg Pro  
85 90 95

Ser Gln Gln Phe Ala Xaa Pro Glu Met Ala Asn Gly Asn Gln Phe Leu  
100 105 110

Xaa Val

&lt;210&gt; 1102

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (151)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1102  
Asn Xaa Lys Lys Lys Lys Xaa Lys Lys Lys Xaa Lys Lys Lys Gly Gly  
1 5 10 15  
Arg Ser Lys Gly Ser Lys Leu Thr Tyr Ala Cys Met Xaa Arg His Xaa  
20 25 30  
Ser Ala Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln  
35 40 45  
Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala  
50 55 60  
Xaa His Pro Pro Phe Ala Arg Trp Arg Asn Ser Xaa Lys Ala Arg Xaa  
65 70 75 80  
Asp Arg Pro Ser Gln Gln Leu Xaa Xaa Leu Asn Gly Xaa Xaa Xaa Ala  
85 90 95  
Pro Cys Xaa Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Xaa Arg

100 105 110  
Val Thr Ala Xaa Leu Xaa Xaa Ala Leu Ala Pro Gly Pro Phe Xaa Phe  
115 120 125  
Phe Pro Ser Phe Leu Ala Thr Phe Ala Gly Phe Pro Arg Gln Ala Leu  
130 135 140  
Asn Arg Gly Val Pro Phe Xaa Val  
145 150

<210> 1103  
<211> 143  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1103

Ile Asn Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly  
1 5 10 15

Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Xaa Arg His  
20 25 30

Ser Ser Ser Ile Xaa Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu  
35 40 45

Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu  
50 55 60

Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Lys Ala Arg  
65 70 75 80

Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp  
85 90 95

Ala Pro Cys Xaa Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Arg  
100 105 110

Ser Val Thr Val Thr Leu Ala Ser Ala Leu Xaa Pro Ala Pro Phe Val  
115 120 125

Ser Ser Leu Xaa Phe Ser Xaa Arg Ser Pro Val Ser Pro Leu Xaa  
130 135 140

<210> 1104

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1104

Arg Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr  
1 5 10 15

Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe  
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly  
35 40 45



Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp  
50 55 60

Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg  
65 70 75 80

Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Thr Ala His  
85 90

<210> 1105

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1105

Ile Arg Gln Arg Tyr Ser Trp Leu Ile Asn Gly Thr Phe Gln Gln Ser  
1 5 10 15

Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser  
20 25 30

Tyr Thr Cys His Ala Asn Asn Ser Val Thr Gly Cys Asn Arg Ala Thr  
35 40 45

Val Lys Thr Met His Ser His  
50 55

<210> 1106

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1106

Pro	Trp	His	Val	Phe	Cys	Ile	Ser	Gly	Arg	Pro	Ala	Ala	Gln	Asp	His
1				5					10					15	

Ser	Asn	Asp	Pro	Pro	Asn	Lys	Met	Asn	Glu	Val	Thr	Tyr	Xaa	Thr	Leu
			20					25						30	

Asn	Phe	Glu	Xaa	Xaa	Gln	Pro	Thr	Gln	Pro	Thr	Ser	Ala	Ser	Pro	Ser
		35					40					45			

Leu	Thr	Ala	Thr	Glu	Xaa	Ile	Tyr	Ser	Arg	Ser	Lys	Lys	Xaa	Val	Met
	50					55						60			

Lys	Pro	Gly	Pro	Ala	Xaa	Cys	Ser	Ala
	65					70		

&lt;210&gt; 1107

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1107

Ser	Ser	His	Asn	Arg	Val	Asn	Ala	Arg	Leu	Ala	Gly	Ala	Pro	Ser	Glu
1					5					10				15	

Asp	Pro	Gln	Phe	Pro	Lys	Val	Gln	Trp	Pro	Pro	Arg	Glu	Leu	Cys	Ser
			20					25						30	

Ala Cys His Asn Glu Arg Leu Asp Val Pro Val Trp Asp Val Glu Ala  
                   35                  40                  45

Thr Leu Asn Phe Leu Lys Ala His Phe Ser Pro Ser Asn Ile Ile Leu  
           50                  55                  60

Asp Phe Pro Ala Ala Gly Ser Thr Cys Pro Arg Asp Val Gln Asn Val  
   65                  70                  75                  80

Ala Ser Arg Pro Lys Leu Ala Met Gly Ala Leu Glu Leu Glu Ser Arg  
                   85                  90                  95

Asn Ser Thr Leu Asp Pro Gly Lys Pro Glu Met Met Lys Ser Pro Thr  
           100                  105                  110

Asn Thr Thr Pro His Val Pro Ala Xaa Gly Pro Glu Ala Ser Arg Pro  
           115                  120                  125

Pro Lys Leu Ala Pro Trp Pro Lys Thr  
       130                  135

<210> 1108  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 1108  
 Gln Tyr Lys Gly Ser Trp Pro Ala Leu Gln Leu Gln His Leu Pro His  
   1                  5                  10                  15

Pro Glu Trp Glu Ser Gly Gly Ala Thr Cys Trp Ala Pro Pro Glu Leu  
           20                  25                  30

Cys Thr His Leu Ala Met Tyr  
       35

<210> 1109  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 1109  
 Ala Asp Phe Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn  
   1                  5                  10                  15

Arg Ile Ile Lys Asn Glu Leu Arg Ser Phe Lys Arg Gln Leu Ser  
           20                  25                  30

<210> 1110  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1110  
Lys Ile Met Ala Ser Pro Asp Trp Gly Tyr Asp Asp Lys Xaa Gly Pro  
1 5 10 15

Glu Gln Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Xaa Gln Ser  
20 25 30

Pro Val Asp Ile Xaa Xaa Ser Glu Thr Lys His Asp Thr Ser Leu Xaa  
35 40 45

Pro Ile Ser Val Ser Tyr Asn Pro Xaa Thr Xaa Lys Glu Ile Xaa Gln  
50 55 60

Cys Gly Gly Ile Pro Ser Met  
65 70

<210> 1111

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1111

Lys Ile Met Ala Ser Pro Asp Trp Gly Tyr Asp Asp Lys Asn Gly Pro  
1 5 10 15

Glu Gln Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Asn Gln Ser  
20 25 30

Pro Val Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu Lys  
35 40 45

Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile Ile Asn  
50 55 60

Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp Xaa Arg Ser  
65 70 75 80

Ser Ala Glu Arg Trp Ser Phe Leu  
85

<210> 1112

<211> 120

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1112  
Gly Ala Asp Ser Cys Pro Ala Pro Thr Ala Xaa Arg Thr Xaa Ser His  
1 5 10 15  
Xaa Trp Gly Tyr Gly Lys His Asn Gly Pro Lys His Trp His Lys Asp  
20 25 30  
Phe Pro Ile Ala Lys Gly Arg Ala Pro Val Pro Leu Leu Xaa Ser Thr  
35 40 45  
Leu His Thr Ala Lys Xaa Glu Pro Phe Xaa Glu Ser Pro Cys Leu Phe

50 55 60  
Pro Met Asn Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn Gly His Ala  
65 70 75 80  
Phe Asn Val Gly Val Xaa Met Thr Leu Xaa Asp Lys Ala Val Leu Gln  
85 90 95  
Gly Lys Asp Pro Trp Val Gly His Phe Thr Asp Trp Phe Ser Phe Phe  
100 105 110  
Gln Phe Ser Met Gly Val Ser Ile  
115 120

&lt;210&gt; 1113

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1113

Met Leu Leu Glu Asn Lys Ala Ser Ile Phe Gly Gly Gly Leu Pro Ala  
1 5 10 15

Pro Tyr Gln Val Lys Xaa Leu His Leu His Trp Ser Asp Leu Pro Tyr  
20 25 30

Lys Gly Ser Xaa His Ser Leu Glu Trp Gly Ala Leu Cys His Gly Arg  
35 40 45

Cys Thr  
50

&lt;210&gt; 1114

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114

Lys Pro Phe Lys Met Ile Pro Gly Val Val Asp Gly Val Phe Leu Pro  
1 5 10 15

Arg His Pro Gln Xaa Leu Leu Ala Ser Ala Asp Phe Gln Pro Val Pro  
20 25 30

Xaa Ile Val Gly Val Asn Asn Asn Glu Phe Gly Trp Leu Ile Pro Lys  
35 40 45

Val Met Xaa Ile Tyr Asp Thr Gln Xaa Glu Met Asp Arg Xaa Ala Ser  
50 55 60

Xaa Ala Ala Leu Gln Lys Met Leu Thr Leu Ile Cys Leu Leu His  
65 70 75 80

Leu Val Thr Cys



<210> 1115  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1115  
Cys Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Arg Gly  
1 5 10 15  
Ser Xaa Xaa Cys Gln Ala His Asn Ser Thr Leu Ala Leu Ile Gly Ala  
20 25 30  
Gln Ser Arg Ile Ser Xaa Ser Met  
35 40

<210> 1116  
<211> 151  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (141)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1116  
Gly Thr Ala Glu Leu Thr Val Thr Ala Ala Leu Thr Arg Glu Phe Leu  
1 5 10 15

Glu Pro Lys Leu Phe Ser Thr Glu Asp Lys Gln Ala Ala Glu Thr Met  
                   20                                  25                                  30  
 Gly Ser Pro Ser Ala Cys Pro Tyr Arg Val Cys Ile Pro Trp Gln Gly  
                   35                                  40                                  45  
 Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Leu Pro Asn Ser  
                   50                                  55                                  60  
 Ala Gln Thr Asn Ile Asp Val Val Pro Phe Asn Val Ala Glu Gly Lys  
                   65                                  70                                  75                                  80  
 Glu Val Leu Leu Val Val His Asn Glu Ser Gln Asn Leu Tyr Gly Tyr  
                                   85                                  90                                  95  
 Asn Trp Tyr Lys Gly Glu Arg Val His Ala Asn Tyr Arg Ile Ile Gly  
                   100                                  105                                  110  
 Tyr Cys Lys Lys Tyr Lys Ser Arg Lys Cys Pro Arg Pro Asp Thr Thr  
                   115                                  120                                  125  
 Ser Arg Asp Xaa Tyr Pro Met Glu Pro Cys Val Pro Xaa Val Pro His  
                   130                                  135                                  140  
 Ala Gln Asp Phe Ser Ser Leu  
                   145                                  150

&lt;210&gt; 1117

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1117

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Thr Ala Leu Glu Leu  
           1                                  5                                  10                                  15  
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Arg Pro Gly Leu  
                   20                                  25                                  30

Ala Arg Xaa Pro Arg Arg Gly Leu Glu Ala Arg Pro Gly Ala Pro Glu  
35 40 45  
Arg Glu Ser Glu Arg Arg Arg Gly Asp Gln Ile Asn Ala Ser Lys Asn  
50 55 60  
Glu Glu Asp Ala Gly Lys Met Phe Val Gly Gly Leu Ser Trp Asp Thr  
65 70 75 80  
Ser Lys Lys Asp Leu Lys Asp Tyr Phe Thr Lys Phe Gly Glu Val Val  
85 90 95  
Asp Cys Thr Ile Lys Met Asp Pro Asn Thr Gly Arg Ser Arg Gly Phe  
100 105 110  
Xaa Phe Ile  
115

&lt;210&gt; 1118

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1118  
Arg Pro Thr Xaa Pro Gly Arg Thr Met Ala Arg Gly Ala Xaa Leu Xaa  
1 5 10 15  
Leu Leu Leu Xaa Gly Leu Leu Gly Val Leu Val Xaa Xaa Pro Asp Gly  
20 25 30  
Gly Phe Asp Leu Ser Asp Ala Leu Xaa Asp Asn Glu Asn Lys Lys Pro  
35 40 45  
Thr Ala  
50

<210> 1119  
<211> 147  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1119  
Xaa Ser Glu Cys Lys Ser Pro Ser Glu Pro Xaa Ile Xaa Lys Arg Val

1                      5                      10                      15  
 Gly Leu Ile His Ile Ser Gln Val Ile Ser Glu Ile Asp Gly Asn Arg  
                     20                      25                      30  
 Met Thr Leu Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln  
                     35                      40                      45  
 Lys Ile Leu Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile  
                     50                      55                      60  
 Lys Glu Val Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys  
                     65                      70                      75                      80  
 Arg Lys Gln Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Xaa Leu  
                     85                      90                      95  
 Ser Gly Leu Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys  
                     100                      105                      110  
 Glu Thr Arg Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile  
                     115                      120                      125  
 Glu His Ala Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr  
                     130                      135                      140  
 Gly Leu Pro  
 145

<210> 1120  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1120  
 His Glu Arg Asn Met Glu Arg Leu Thr Leu Ala Cys Gly Gly Val Ala  
                     1                      5                      10                      15  
 Leu Asn Ser Phe Glu Asp Leu Ser Pro Asp Cys Leu Gly His Ala Gly  
                     20                      25                      30  
 Leu Val Tyr Glu Tyr Thr Leu Gly Glu Val His Leu Tyr  
                     35                      40                      45

<210> 1121  
 <211> 67  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1121

Asn Trp Arg Met Arg Met Xaa His Val Met Leu Pro Lys Asp Ile Ala  
1 5 10 15

Lys Leu Val Pro Lys Thr His Leu Met Ser Glu Ser Glu Trp Arg Asn  
20 25 30

Leu Gly Val Gln Gln Ser Gln Gly Trp Val His Tyr Met Ile His Glu  
35 40 45

Pro Glu Pro Xaa Xaa Leu Leu Phe Arg Gly His Xaa Gln Glu Pro Arg  
50 55 60

Asn Xaa Val

65

<210> 1122

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1122

Ser Cys Cys Leu Gly Trp Thr Trp Phe Cys Leu Leu Xaa Pro Leu Leu  
1 5 10 15

Xaa Leu Xaa Xaa Asn Xaa Xaa Gln Xaa Ala Ser Xaa Met Val His Lys  
20 25 30

Gln Ile Tyr Tyr Ser Asp Lys Tyr Xaa Xaa Glu His Tyr Glu Xaa Arg  
35 40 45

Asp Gly Met Leu Pro Arg Glu Leu Asp Lys Gln Xaa Pro Lys Thr Xaa  
50 55 60

<210> 1123

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1123

Gln Leu Val Gly Pro Pro Gly Leu Gln Xaa Phe Gly Ser Xaa Xaa Lys  
 1 5 10 15

Pro Tyr Gly Val Thr Ala Met Cys Trp Asn Trp Glu Gln Val Xaa Ala  
 20 25 30

Ala Gly Arg His Pro Glu Ser Arg Pro Phe Arg Phe Thr Gly Ala Ala  
 35 40 45

Thr Ser Pro Arg Ser Ser Cys Ser Arg Ala Cys Ile Val Lys Val Val  
 50 55 60

Arg Arg Arg Leu Ala Glu Lys Arg Ile Gly Val Arg Asp Val Arg Leu  
 65 70 75 80

Asn Gly Ser Ala Ala Ser His Val Leu His Gln Asp Ser Gly Leu Gly  
 85 90 95

Tyr Lys Asp Leu Asp Leu Ile Phe Cys Ala Asp Leu Arg Gly Glu Gly  
 100 105 110

Glu Phe Gln Thr Val Lys Asp Val Val Leu Asp Cys Leu Leu Asp Phe  
 115 120 125

Leu Pro Glu Gly Val Asn Lys Glu Lys Ile Thr Pro Leu Thr Xaa Lys  
 130 135 140

Glu Ala Tyr Val Gln Lys Met Val Lys Val Cys  
 145 150 155

&lt;210&gt; 1124

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1124

Ala	Lys	Ser	Phe	Glu	Tyr	Xaa	Ala	Arg	Ile	Phe	Lys	Gln	His	Phe	Met
1				5					10					15	

Asp	Ser	Arg	Ile	Pro	Cys	Leu	Ile	Val	Ala	Ala	Lys	Ser	Asp	Leu	His
			20					25						30	

Glu	Val	Lys	Gln	Glu	Tyr	Ser	Ile	Ser	Pro	Thr	Asp	Phe	Cys	Arg	Lys
		35					40					45			

His	Lys	Met	Pro	Pro	Pro	Gln	Ala	Phe	Thr	Cys	Asn	Thr	Ala	Asp	Ala
	50					55						60			

Pro	Ser	Lys	Asp	Ile	Phe	Gly	Lys	Leu	Thr	Thr	Met	Ala	Met	Tyr	Pro
65					70					75					80

His	Ala	Arg	Leu	Arg	Cys	Xaa	Cys	Thr	Cys	Asn	Arg	Cys	Thr	Phe	Cys
			85						90					95	

Xaa	Cys	Xaa	Asn	Phe	Leu	Asn	Leu	Tyr	Phe	Ala	Ala	Asn	Xaa	Val	Lys
			100					105						110	

Glu	Gln	Lys	Ser	Phe
				115

<210> 1125

<211> 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1125

Ile Met Lys Leu Leu Thr Arg Ala Gly Ser Phe Ser Arg Phe Tyr Ser  
1 5 10 15  
Leu Lys Val Ala Pro Lys Val Lys Ala Thr Ala Ala Pro Ala Gly Ala  
20 25 30  
Pro Pro Gln Pro Gln Asp Leu Glu Phe Thr Lys Leu Pro Asn Gly Leu  
35 40 45  
Val Ile Ala Ser Leu Glu Asn Tyr Ser Pro Val Ser Arg Ile Gly Leu  
50 55 60  
Phe Ile Lys Ala Gly Ser Arg Tyr Glu Asp Phe Ser Asn Leu Gly Thr  
65 70 75 80  
Thr His Leu Leu Arg Leu Thr Ser Ser Leu Thr Thr Lys Gly Ala Ser  
85 90 95  
Ser Phe Lys Ile Thr Arg Gly Ile Glu Ala Val Gly Gly Lys Leu Ser  
100 105 110  
Val Thr Ala Thr Arg Glu Asn Met Ala Tyr Thr Val Glu Cys Leu Arg  
115 120 125  
Gly Asp Val Asp Ile Leu Met Glu Phe Leu Leu Asn Val Thr Thr Ala  
130 135 140  
Pro Glu Phe Arg Arg Trp Glu Val Ala Asp Leu Gln Pro Gln Leu Lys  
145 150 155 160  
Ile Asp Lys Ala Val Ala Phe Gln Asn  
165

&lt;210&gt; 1126

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1126

Pro Pro Val Val His Lys Asn Pro Ile His Ile Lys Thr Pro Ser Pro  
1 5 10 15  
Cys Leu Gln Ala Ser Thr Ala Ile Asn Pro Gln Leu Ser His Ile Asn  
20 25 30

Cys Asn Ser Lys Ala Thr Pro His Pro Leu Gly Tyr Gln Gln Thr Tyr  
35 40 45

Pro Pro Leu Thr Val His Ser Thr  
50 55

<210> 1127

<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1127

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Gly Gly Cys Val  
20 25 30

Leu Gly Lys Ala Gly Gly Xaa Gly Gly Arg Leu Phe Tyr Gly Ser Arg  
35 40 45

Asp Arg Pro Val Leu Leu Pro Phe Pro Pro Ser Leu Pro Pro Leu Ser  
50 55 60

Arg Arg Gly Ala Ala Ala Ala Leu Asp Phe Ala Val Phe Pro Arg Gly  
65 70 75 80

Asp Arg Phe Gln His Tyr Thr Cys Thr Met Ser Leu Lys Pro Arg Val  
85 90 95

Val Asp Phe Asp Glu Thr Trp Asn Lys Leu Leu Thr Thr Ile Lys Ala  
100 105 110

Val Val Met Leu Glu Tyr Val Glu Arg Ala Thr Trp Asn Asp Arg Phe  
115 120 125

Ser Asp Ile Tyr Ala Leu Cys Val Ala Tyr Pro Glu Pro Leu Gly Glu  
130 135 140

Arg Leu Tyr Thr Glu Thr Lys Ile Phe Leu Glu Asn His Val Arg His  
145 150 155 160

Leu His Lys Arg Val Leu Glu Ser Glu Glu Gln Val Leu Val Met Tyr  
165 170 175

His Arg Tyr Trp Glu Glu Tyr Ser Lys Gly Ala Asp Tyr Met Asp Cys  
 180 185 190

Leu Tyr Arg  
 195

<210> 1128

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1128

Ser Ile Ile Asp Arg Phe Met Gln Asn Asn Cys Val Pro Lys Lys Met  
 1 5 10 15

Leu Gln Leu Val Gly Val Thr Ala Met Phe Ile Ala Ser Lys Tyr Glu  
 20 25 30

Glu Met Tyr Pro Pro Glu Ile Gly Asp Phe Ala Phe Val Thr Asp Asn  
 35 40 45

Thr Tyr Thr Lys His Gln Ile Arg Gln Met Glu Met Lys Ile Leu Arg  
 50 55 60

Ala Leu Asn Phe Gly Leu Gly Arg Pro Leu Pro Leu His Phe Leu Arg  
 65 70 75 80

Arg Ala Ser Lys Ile Gly Glu Val Asp Val Glu Gln His Thr Leu Ala  
 85 90 95

Lys Tyr Leu Met Glu Leu Thr Met Leu Asp Tyr Asp Met Val His Phe  
 100 105 110

Pro Pro Ser Xaa Ile Ala Ala Gly Ala Xaa Cys Leu Ala Leu Lys Ile  
 115 120 125

Leu Gly  
 130

&lt;210&gt; 1129

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1129

Gly Asp Glu Glu Ala Cys Pro Glu Asp Lys Gly Pro Gln Asp Pro Gln  
 1 5 10 15

Ala Leu Ala Leu Asp Thr Gln Ile Pro Ala Thr Pro Gly Pro Lys Pro  
 20 25 30

Leu Val Arg Thr Ser Arg Glu Pro Gly Lys Asp Val Thr Thr Ser Gly  
 35 40 45

Tyr Ser Ser Val Ser Thr Ala Ser Pro Thr Ser Ser Val Asp Gly Gly  
 50 55 60

Leu Gly Ala Leu Pro Gln Pro Thr Ser Val Leu Ser Leu Asp Ser Asp  
 65 70 75 80

Ser His Thr Gln Pro Cys His His Gln Xaa Arg Lys Ser Cys Leu Gln  
 85 90 95

Cys Arg Pro Pro Ser Pro Pro Glu Ser Ser Val Pro Gln Gln Gln Val  
 100 105 110

Lys Arg Ile Asn Tyr Ala Tyr Thr Val Lys Arg Arg Thr  
 115 120 125

&lt;210&gt; 1130

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1130

Xaa Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Gln Ile Pro Ser  
1 5 10 15  
Val Ala Ala Lys Met Met Cys Gly Ala Pro Ser Ala Thr Gln Pro Ala  
20 25 30  
Thr Ala Glu Thr Gln His Ile Ala Asp Gln Val Arg Ser Gln Leu Glu  
35 40 45  
Glu Lys Glu Asn Lys Lys Phe Pro Val Phe Lys Ala Val Ser Phe Lys  
50 55 60  
Ser Gln Val Val Ala Gly Thr Asn Tyr Phe Ile Lys Val His Val Gly  
65 70 75 80  
Asp Glu Asp Phe Val His Leu Arg Val Phe Gln Ser Leu Pro His Glu  
85 90 95  
Asn Lys Pro Leu Thr Leu Ser Asn Tyr Gln Thr Asn Lys Ala Lys His  
100 105 110  
Asp Glu Leu Thr Tyr Phe  
115

<210> 1131  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 1131  
Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu  
1 5 10 15  
Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln  
20 25 30  
Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu  
35 40 45  
Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Pro Val Phe Thr Leu  
50 55 60

<210> 1132  
<211> 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1132

Ala Arg Ala His Lys Glu Ile Tyr Pro Tyr Val Ile Gln Glu Leu Arg  
1 5 10 15

Pro Thr Leu Asn Glu Leu Gly Ile Ser Thr Pro Glu Glu Leu Gly Leu  
20 25 30

Asp Lys Val  
35

&lt;210&gt; 1133

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1133

Pro Tyr Thr Asn Asp Gly Ala Met Xaa His Glu Glu Ser Thr Tyr Gln  
1 5 10 15

Gly His His Thr Pro Pro Val Gln Lys Xaa Leu Arg Tyr Gly Ile Ile  
20 25 30

Leu Phe Ile Thr Ser Glu Val Phe Phe Phe Ala Gly Phe Ser Glu Leu  
35 40 45

Leu His Ser Ser Leu Ala Leu Pro Pro Thr Lys Lys Xaa Leu Ala Pro



50

55

60

Thr Xaa Ile Thr Arg  
65

&lt;210&gt; 1134

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1134

Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu  
1 5 10 15

Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln  
20 25 30

Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu  
35 40 45

Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Pro Val Phe Thr Leu  
50 55 60

&lt;210&gt; 1135

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1135

Thr Tyr Xaa Val His Arg Leu Arg Arg Thr Asn Leu Gln Leu Leu His  
1 5 10 15

Thr Ser Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val  
20 25 30

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile  
35 40 45

Thr Ser Gln Asp Val Leu His Ser

50

55

&lt;210&gt; 1136

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1136

Ala Gln Val Gly Leu Gln Asp Ala Thr Ser Pro Ile Ile Glu Glu Leu  
1 5 10 15

Ile Thr Phe His Asp His Ala Leu Ile Ile Ile Phe Leu Ile Cys Phe  
20 25 30

Leu Val Leu Tyr Ala Leu Phe Leu Thr Leu Thr Thr Lys Leu Thr Asn  
35 40 45

Thr Asn Ile Ser Asp Ala Gln Glu Ile Glu Thr Val  
50 55 60

&lt;210&gt; 1137

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1137

Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile  
1 5 10 15

Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val  
20 25 30

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile  
35 40 45

Asn

&lt;210&gt; 1138

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1138

Ala	Val	Pro	Thr	Leu	Gly	Leu	Lys	Thr	Asp	Ala	Ile	Pro	Gly	Arg	Leu
1				5				10					15		

Asn	Gln	Thr	Thr	Phe	Thr	Ala	Thr	Arg	Pro	Gly	Val	Tyr	Tyr	Gly	Gln
		20						25					30		

Cys	Ser	Glu	Ile	Cys	Gly	Ala	Asn	His	Ser	Phe	Met	Pro	Ile	Val	Leu
		35					40					45			

Glu	Leu	Ile	Pro	Leu	Lys	Ile	Phe	Gly	Asn	Arg	Ala	Arg	Ile	Tyr	Pro
	50				55						60				

Ile	Ala	Pro	Pro	Leu	Pro	Pro	Leu	Glu	Xaa	Lys	Lys	Lys	Lys	Xaa	Xaa
65				70						75				80	

<210> 1139

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1139

Phe Glu Ala Asn Asp Pro Ser Leu Thr Ile Lys Ser Ile Gly His Gln  
1 5 10 15

Xaa Tyr Arg Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn  
20 25 30

Ser Tyr Ile Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu  
35 40 45

Leu Asp Xaa Asp Asn Arg Val Val Leu Pro Ile Glu Thr Pro Ile Arg  
50 55 60

Ile Ile Ile Thr Tyr Xaa Asp Val Leu His Ser  
65 70 75

&lt;210&gt; 1140

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1140

His Xaa Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro Arg Cys  
1 5 10 15

Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr  
20 25 30

Arg Glu Trp Arg Leu Pro Ser Leu Arg Arg Ala Thr Leu Trp Ile Pro  
35 40 45

Gln Trp Phe Ala Lys Lys Ala Ile Phe Asn Ser Pro Leu Glu Ala Ala  
50 55 60

Met Ala Phe Pro His Leu Gln Gln Pro Ser Phe Leu Leu Ala Ser Leu  
65 70 75 80

Lys Ala Asp Ser Ile Asn Lys Pro Phe Ala Gln Gln Cys Gln Asp Leu  
85 90 95

Val Lys Val Ile Glu Asp Phe Pro Ala Lys Ser Glu Pro Ile Arg Val

100 105 110  
Leu Val Thr Gly Ala Ala Gly Gln Ile Ala Tyr Ser Leu Leu Tyr Ser  
115 120 125  
Ile Gly Asn Gly Ser Val Phe Gly Lys Asp Gln Met Ser Ser Gln Gln  
130 135 140  
Ile Lys Lys Thr Leu Pro Ser Lys Thr Trp Asp Val Ala Ile Leu Val  
145 150 155 160  
Gly Ser Met Pro Arg Arg Glu Gly Met Glu Arg Lys Asp Leu Leu Lys  
165 170 175  
Ala Asn Val Lys Ile Phe Lys Ser Gln Gly Ala Ala Leu Asp Lys Tyr  
180 185 190  
Gly Lys Lys Ser Val Lys Gly Tyr  
195 200

<210> 1141

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (157)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (165)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141  
His Glu Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp Glu Gly Glu  
1 5 10 15  
Trp Ser Gly Pro Pro Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys  
20 25 30  
Val Pro Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val Pro Thr Thr  
35 40 45  
Glu Val Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro  
50 55 60  
Asn Ala Gln Gly Thr Glu Thr Pro Ser Val Leu Gln Lys His Thr Thr  
65 70 75 80  
Glu Asn Val Ser Ala Thr Arg Thr Pro Pro Thr Pro Gln Lys Pro Thr  
85 90 95  
Thr Val Asn Val Pro Ala Thr Ile Val Thr Pro Thr Pro Gln Lys Pro  
100 105 110  
Thr Thr Leu Met Phe Gln Leu Gln Glu Ser Xaa Gln His Xaa Lys Xaa  
115 120 125  
His Leu Val Met Phe Gln Leu Gln Xaa Leu Pro Leu Phe Gly Xaa His  
130 135 140  
Arg Gly Asn Val Arg His His Ser Arg Ala Phe Gly Xaa Ser Phe Lys  
145 150 155 160

Thr Phe Xaa Lys Xaa Phe Cys Val Arg Ser Cys Gly Met Phe Cys Xaa  
165 170 175

Arg Pro Leu Arg Pro Gly  
180

<210> 1142

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1142

Asp Gly Ala Xaa Pro Gly Arg Ala Tyr Ala Leu Leu Leu Leu Ile  
1 5 10 15

Cys Phe Asn Val Gly Ser Gly Leu His Leu Gln Val Leu Ser Thr Arg  
20 25 30

Asn Glu Asn Lys Leu Leu Pro Lys His Pro His Leu Val Arg Gln Lys  
35 40 45

Arg Ala Trp Ile Thr Ala Pro Val Ala Leu Arg Glu Gly Glu Asp Leu  
50 55 60

Ser Lys Lys Asn Pro Ile Ala Lys Ile His Ser Asp Leu Ala Glu Glu  
65 70 75 80

Arg Gly Leu Lys Ile Thr Tyr Lys Tyr Thr Gly Lys Gly Ile Thr Glu  
85 90 95

Pro Pro Phe Gly Ile Phe Val Phe Asn Lys Asp Thr Gly Glu Leu Asn  
100 105 110

Val Thr Ser Ile Leu Asp Arg Glu Glu Thr Pro Phe Phe Leu Leu Thr  
115 120 125

Gly Leu Arg Phe Gly Cys Lys Arg Glu Gln Cys Arg Xaa Thr Leu  
130 135 140

<210> 1143

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1143

Ala Gln Ser Pro Ser Arg Ser Thr Gly Gln Asp Val Ala Ala Glu Trp  
1 5 10 15

Gly Ser Glu Glu Ser Val Ala Gly Ser Leu Glu Ala Glu Phe Glu Lys  
20 25 30

Ala Ala Glu Glu Val Arg His Leu Lys Thr Lys Pro Ser Asp Glu Glu  
35 40 45

Met Leu Phe Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile  
50 55 60

Asn Thr Glu Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp  
65 70 75 80

Asp Ala Trp Asn Glu Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys  
85 90 95

Ala Tyr Ile Asn Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile  
100 105 110

<210> 1144

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144  
Ala Cys Ala Tyr Thr Pro Pro Ser Xaa Lys Ala Val Gln Arg Ile Ala  
1 5 10 15  
Glu Ser His Xaa Gln Ser Xaa Ser Asn Leu Asn Glu Asn Xaa Ala Ser  
20 25 30  
Glu Glu Glu Xaa Glu Xaa Gly Glu Leu Arg Glu Leu Gly Tyr Pro Arg  
35 40 45  
Glu Glu Asp Glu Glu Glu Glu Xaa Asp Glu Glu Glu Glu Asp Xaa  
50 55 60  
Glu Asp Ser Xaa Ala Glu Asp Xaa Ser Gly  
65 70

<210> 1145  
<211> 153  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1145

Asn Xaa Pro Asn Ala Glu Leu Gly Gly Pro Phe Asn Gln Met Asn Gly  
1 5 10 15

Val Xaa Gly Asn Gly Met Asn Asn Ile Asp Met Thr Gly Xaa Lys Lys  
20 25 30

Ser Leu Xaa Leu Pro Tyr Pro Ser Ser Phe Ala Pro Val Ser Xaa Pro  
35 40 45

Arg Asn Gln Thr Phe Thr Tyr Met Gly Lys Xaa Ser Ile Asp Pro Gln  
50 55 60

Tyr Pro Gly Ala Ser Xaa Tyr Pro Glu Gly Ile Ile Asn Ile Val Ser  
65 70 75 80

Ala Gly Ile Leu Gln Gly Val Thr Ser Pro Ala Ser Thr Thr Ala Ser  
85 90 95

Ser Ser Val Thr Ser Ala Ser Pro Asn Pro Leu Ala Thr Xaa Pro Leu  
100 105 110

Gly Val Cys Thr Met Ser Gln Thr Gln Pro Asp Leu Asp His Leu Tyr  
115 120 125

Ser Pro Pro Xaa Pro Pro Pro Tyr Ser Gly Cys Ala Gly Xaa Leu  
130 135 140

Tyr Gln Asp Pro Ser Ala Phe Leu Leu  
145 150

<210> 1146

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1146

Xaa Phe Gln Ile Asp Pro Xaa Leu Gly Thr Val Gly Phe Gly Ser Gly  
1 5 10 15

Leu His Gly Trp Ala Phe Thr Leu Lys Ala Val Cys Arg Glu Cys Met  
20 25 30

<210> 1147

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1147

Ala Xaa His Gln Arg Xaa Xaa Xaa Ile Lys Arg Leu Ser Thr Glu His  
1 5 10 15

Ser Ser Val Ser Glu Tyr His Pro Ala Asp Gly Tyr Ala Phe Ser Ser  
20 25 30

Asn Ile Tyr Thr Arg Gly Ser His Leu Asp Gln Gly Glu Ala Ala Val  
35 40 45

Ala Phe Lys Pro Thr Ser Asn Arg His Ile Arg Leu Lys Leu  
50 55 60

<210> 1148  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148  
Gly Arg Ala Leu Arg Ala Xaa Arg Leu Thr Gln Leu Thr Glu Ile Leu  
1 5 10 15  
Ser Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp  
20 25 30  
Thr Ile Asp Trp Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val  
35 40 45  
Val Lys Asp Asn Gly Xaa Lys Leu Ser Pro Leu Ser  
50 55 60

<210> 1149  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149  
Phe Gln Thr Arg Asn Leu Gln Val Thr Leu Glu Asp Gly Tyr Ile Glu  
1 5 10 15  
Leu Ser Thr Ser Asp Arg Xaa Gly Pro Ile Phe Lys Ser Pro Gln Thr  
20 25 30

Tyr Met Asp Gly Leu Leu His Tyr Val Ser Val Ile Ser Asp Asn Ser  
           35                          40                          45

Gly

<210> 1150

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1150

Pro Ala Ala Arg Xaa Xaa Val Pro Arg Ala Met Glu Arg Ala Ser Leu  
       1                          5                          10                          15

Ile Gln Lys Ala Xaa Leu Ala Glu Gln Ala Glu Arg Tyr Glu Asp Met  
                           20                          25                          30

Ala Ala Phe Met Xaa Gly Ala Val Glu Lys Gly Glu Glu Ser Pro Ala  
           35                          40                          45

Lys Ser Glu Thr Cys Ser Gln  
       50                          55

<210> 1151

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1151

Val Ser Xaa Gly Thr Gly Asn Ser Arg Val Arg Thr His Xaa Val Pro  
1 5 10 15

Pro Arg Pro Leu Pro Cys Ser Glu Gly Gly Glu Arg Leu Leu Pro Thr  
20 25 30

Gln Lys Gln Pro Gly Gly Gly Gln Val Asn Ser Ser Arg Tyr Lys Thr  
35 40 45

Glu Leu Cys Arg Pro Phe Glu Glu Asn Gly Ala Cys Lys Tyr Gly Asp  
50 55 60

Lys Cys Gln Phe Ala His Gly Ile His Glu Leu Arg Ser Leu Thr Arg  
65 70 75 80

His Pro Lys Tyr Lys Thr Glu Leu Cys Arg Thr Phe His Thr Ile Gly  
85 90 95

Phe Cys Pro Tyr Gly Pro Arg Cys His Phe Ile His Asn Ala Glu Glu  
100 105 110

Arg Arg Ala Leu Ala Gly Ala Arg Asp Leu Ser Ala Asp Arg Pro Arg  
115 120 125

Leu Gln His Ser Phe Ser Leu Leu Gly Phe Pro Val Pro Leu Pro Pro  
130 135 140

Pro Leu Pro Pro Gly Cys Trp Thr Ala His Val His Gln Pro Asn Pro  
145 150 155 160

Tyr Phe

<210> 1152

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152

His Glu Gly Ala Ser Arg Cys Gly His Leu Cys Arg Gly Arg Xaa Ala  
1 5 10 15

Ala Ser Tyr Pro Ala Leu Arg Ala Ser Leu Leu Pro Gln Ser Leu Ala  
20 25 30

Ala Ala Ala Ala Phe Pro Thr Arg Xaa Asn Ser Gln Glu Ser Lys Thr  
35 40 45

Thr Tyr Leu Glu Asp Leu Pro Pro Pro Glu Tyr Glu Leu Ala Pro  
50 55 60

Ser Lys Leu Glu Glu Glu Val Asp Asp Val Phe Leu Ile Arg Ala Gln  
65 70 75 80

Gly Leu Pro Trp Val Met Ala Leu Trp Glu Asp Val Ala Leu Thr Phe  
85 90 95

Phe Phe Gln Thr Cys Arg Ile Arg Gln Arg Leu Ser Asn Gly Asn Tyr  
100 105 110

Ile Xaa Leu Pro Lys Asn Lys Arg Trp Gly Lys Thr  
115 120

<210> 1153

<211> 151

<212> PRT

<213> Homo sapiens

<220>



<221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1153  
 Ala Met Val Arg Leu Val Lys Cys Asp Val Tyr Pro Cys Pro Asn Thr  
     1                    5                    10                    15  
 Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Thr Val  
                     20                    25                    30  
 Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val Ala Glu  
                     35                    40                    45  
 Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln Arg Arg  
                     50                    55                    60  
 Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg Leu Ser  
     65                    70                    75                    80  
 Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu Gln Asp  
                     85                    90                    95  
 Gly Ser Leu Lys Asp Ile Leu Arg Xaa Thr Leu Ala Arg Gly Leu Gly  
                     100                    105                    110  
 Trp Leu Lys Lys Thr Thr Val Leu Gly Cys Asp Ala Thr Tyr Gln Ala  
                     115                    120                    125  
 Thr Ser His Pro Thr Pro Thr Leu Pro Gly Arg Xaa Pro Pro Ser Pro  
     130                    135                    140  
 Cys Arg Xaa Pro Xaa Ala His  
     145                    150

<210> 1154  
<211> 113  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154  
Gly Ser Pro Trp Pro Asn Ser Cys Arg Pro Glu Ala Arg Arg Asp Arg  
1 5 10 15  
Leu Gln Pro Leu Gly Gly Val Cys Glu Xaa Ala Ser Glu His Asp Val  
20 25 30  
Val Asn Leu Gly Xaa Gly Phe Pro Asp Phe Pro Pro Pro Asp Phe Ala  
35 40 45  
Val Glu Ala Phe Gln His Ala Val Ser Gly Asp Phe Met Leu Asn Gln  
50 55 60  
Tyr Thr Lys Thr Phe Gly Tyr Pro Pro Leu Asp Glu Asp Pro Gly Asn  
65 70 75 80  
Phe Phe Gly Gly Ala Ala Gly Ser Arg Ile Arg Pro Val Gln Gly Cys  
85 90 95  
Ala Gly Asp Cys Trp Trp Xaa Trp Gly Pro Val Ser Lys Ala Xaa Pro  
100 105 110

Gly

&lt;210&gt; 1155

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1155

Gly Thr Thr Val Arg Asp Tyr Thr Gln Met Asn Glu Leu Gln Arg Arg  
1 5 10 15

Leu Gly Pro Arg Gly Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe  
20 25 30

Gly His Gln Glu Asn Ala Lys Asn Glu Glu Ile Leu Asn Ser Leu Lys  
35 40 45

Tyr Val Arg Pro Gly Gly Gly Phe Glu Pro Asn Phe Met Leu Phe Glu  
50 55 60

Lys Cys Glu Val Asn Gly Ala Gly Ala His Pro Leu Phe Xaa Phe Leu  
65 70 75 80

Arg Glu Ala Leu Pro Ala Pro Ser Asp Asp Xaa Thr Ala Leu Met Thr  
85 90 95

Asp Pro Lys Leu Ile Thr Trp Ser  
100

&lt;210&gt; 1156

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1156

Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp  
1 5 10 15

Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile

20

25

30

Glu Asn Val Ala Ser Leu  
35

&lt;210&gt; 1157

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1157

Asp Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg  
1 5 10 15

Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly  
20 25 30

His Gln Ser Arg Arg Asp Arg Ser Ser Lys Pro Ser Phe Glu Met Ser  
35 40 45

Leu Gln Pro Gln Lys Tyr Leu Gln Pro His Thr Ile Ser Ser Ala  
50 55 60

&lt;210&gt; 1158

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1158

Thr Leu Lys Phe Phe Pro Ala Ser Ala Asp Arg Thr Val Ile Asp Tyr  
1 5 10 15

Asn Gly Glu Arg Thr Leu Asp Gly Phe Lys Lys Phe Leu Glu Ser Gly  
20 25 30

Gly Gln Asp Gly Ala Gly Asp Asp Asp Asp Leu Glu Asp Leu Glu Glu  
35 40 45

Ala Xaa Glu Pro Asp Met Glu Glu Asp Asp Asp Gln Lys Ala Val Lys  
50 55 60

Asp Glu Leu

65

&lt;210&gt; 1159

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (202)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1159

Ala Val Ile Met Gly Ala Pro Gly Ser Gly Lys Gly Thr Val Ser Ser  
1 5 10 15

Arg Ile Thr Thr His Phe Glu Leu Lys His Leu Ser Ser Gly Asp Leu  
20 25 30

Leu Arg Asp Asn Met Leu Arg Gly Thr Glu Ile Gly Val Leu Ala Lys  
35 40 45

Ala Phe Ile Asp Gln Gly Lys Leu Ile Pro Asp Asp Val Met Thr Arg  
50 55 60

Leu Ala Leu His Glu Leu Lys Asn Leu Thr Gln Tyr Ser Trp Leu Leu  
65 70 75 80

Asp Gly Phe Pro Arg Thr Leu Pro Gln Ala Glu Ala Leu Asp Arg Ala  
85 90 95

Tyr Gln Ile Asp Thr Val Ile Asn Leu Asn Val Pro Phe Glu Val Ile  
100 105 110

Lys Gln Arg Leu Thr Ala Arg Trp Ile His Pro Ala Ser Gly Arg Val  
115 120 125

Tyr Asn Ile Glu Phe Asn Pro Pro Lys Thr Val Gly Ile Asp Asp Leu  
130 135 140

Thr Gly Glu Pro Leu Ile Gln Arg Glu Asp Asp Lys Pro Glu Thr Val  
145 150 155 160

Ile Lys Arg Leu Lys Ala Tyr Glu Asp Gln Thr Lys Pro Val Leu Glu

165 170 175  
Tyr Tyr Gln Lys Lys Gly Val Leu Glu Thr Phe Ser Gly Thr Glu Thr  
180 185 190  
Asn Lys Ile Trp Pro Tyr Val Tyr Ala Xaa Leu Gln Leu Lys Xaa His  
195 200 205  
Lys Glu Ala Arg Lys Leu  
210

<210> 1160  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1160  
Leu Xaa Ser Xaa Lys Trp Ile Tyr Asn Gly Phe Ser Ser Val Leu Gln  
1 5 10 15  
Phe Leu Gly Leu Tyr Lys Lys Ser Gly Lys Leu Val Phe Phe Arg Leu  
20 25 30

Gly

<210> 1161  
<211> 123  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1161

Gly Asn Ser Lys Thr Glu Asp Gln Arg Asn Glu Glu Lys Ala His Val  
1 5 10 15

Xaa Ala Asn Lys Lys Ile Glu Lys Gln Leu Gln Xaa Asp Xaa Gln Val  
20 25 30

Tyr Arg Ala Thr His Arg Leu Leu Leu Gly Ala Gly Glu Ser Gly  
35 40 45

Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His Val Asn Gly Phe  
50 55 60

Asn Xaa Asp Ser Glu Lys Ala Thr Lys Val Gln Asp Ile Lys Asn Asn  
65 70 75 80

Leu Lys Glu Ala Ile Glu Thr Xaa Val Ala Ala Met Ser Asn Leu Xaa  
85 90 95

Ala Pro Arg Gly Ala Gly Gln Pro Arg Glu Thr Ser Ser Glu Trp Thr  
100 105 110

Thr Ser Trp Ser Val Met Asn Val Pro Gly Phe  
115 120

<210> 1162  
<211> 87  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1162  
Pro Thr Arg Pro Pro Thr Arg Pro Glu Leu Lys Asp Leu Gln Glu Pro  
1 5 10 15  
Gln Glu Pro Arg Val Gly Lys Leu Arg Asn Phe Ala Pro Ile Pro Gly  
20 25 30  
Glu Pro Val Val Pro Ile Leu Cys Ser Asn Pro Asn Phe Pro Glu Glu  
35 40 45  
Leu Lys Pro Leu Cys Lys Ser Pro Met Pro Arg Xaa Xaa Phe Arg Gly  
50 55 60  
Trp Arg Lys Ser Leu Xaa Asp Pro Gly His Met Trp Lys Ser Val Xaa  
65 70 75 80  
Thr Leu Ala Cys Thr Gly Cys  
85

<210> 1163  
<211> 100  
<212> PRT  
<213> Homo sapiens



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1163

Val Gln Gly Pro Tyr Val Leu Gly Thr Gly Leu Ile Leu Tyr Ala Leu  
1 5 10 15

Ser Lys Glu Ile Tyr Val Ile Ser Ala Glu Thr Phe Thr Ala Leu Ser  
20 25 30

Val Leu Gly Val Met Val Tyr Gly Ile Lys Lys Tyr Gly Pro Phe Val  
35 40 45

Ala Asp Phe Ala Asp Lys Leu Asn Glu Gln Lys Leu Ala Gln Leu Glu  
50 55 60

Glu Ala Xaa Xaa Ala Ser Ile Gln His Ile Gln Asn Ala Ile Asp Thr  
65 70 75 80

Glu Lys Ser Gln Gln Ala Leu Val Gln Lys Arg His Tyr Leu Phe Gly  
85 90 95

Cys Ala Lys Glu  
100

&lt;210&gt; 1164

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1164

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Leu Cys Gly His

1                    5                    10                    15  
Leu Ala Lys Met Pro Glu Glu Thr Gln Thr Gln Asp Gln Pro Met Glu  
                  20                    25                    30  
Glu Glu Glu Val Glu Thr Phe Ala Phe Gln Ala Glu Ile Ala Gln Leu  
                  35                    40                    45  
Met Ser Leu Ile Ile Asn Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu  
                  50                    55                    60  
Arg Glu Leu Ile Ser Asn Ser Ser Asp Ala Leu Asp Lys Ile Arg Tyr  
                  65                    70                    75                    80  
Glu Ser Leu Thr Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu His  
                  85                    90                    95  
Ile Asn Leu Ile Pro Asn Lys Gln Asp Arg Thr Leu Thr Ile Val Asp  
                  100                    105                    110  
Thr Gly Ile Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr  
                  115                    120                    125  
Ile Ala Lys Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly  
                  130                    135                    140  
Ala Asp Ile Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala  
                  145                    150                    155                    160  
Tyr Leu Val Ala Glu Lys Val Thr Val Ile Xaa Lys His Asn Asp Asp  
                  165                    170                    175  
Glu Gln Tyr Xaa Trp Glu Ser Ser Ala Gly  
                  180                    185

&lt;210&gt; 1165

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (173)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (191)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (197)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1165

Ala	Xaa	Ile	Cys	Leu	Leu	Glu	Thr	Ala	Pro	Ser	Ser	Arg	Glu	Ser	Gln
1				5					10					15	

Lys	Glu	Asp	Met	Ala	Ala	Gly	Gln	Arg	Glu	Ala	Arg	Pro	Gln	Val	Ser
		20					25						30		

Leu	Thr	Phe	Glu	Asp	Val	Ala	Val	Leu	Phe	Thr	Trp	Asp	Glu	Trp	Arg
	35						40					45			

Lys	Leu	Ala	Pro	Ser	Xaa	Arg	Asn	Leu	Tyr	Arg	Asp	Val	Met	Leu	Glu
	50					55					60				

Asn	Tyr	Arg	Asn	Leu	Val	Ser	Leu	Gly	Leu	Ser	Phe	Thr	Lys	Pro	Lys
65				70						75				80	

Val	Ile	Ser	Leu	Leu	Gln	Gln	Gly	Glu	Asp	Pro	Trp	Glu	Val	Glu	Lys
			85						90					95	

Asp	Ser	Ser	Gly	Val	Ser	Ser	Leu	Gly	Cys	Lys	Ser	Thr	Pro	Lys	Met
			100					105						110	

Thr	Lys	Ser	Thr	Gln	Thr	Gln	Asp	Ser	Phe	Gln	Glu	Gln	Ile	Arg	Lys
	115						120						125		

Arg	Leu	Lys	Arg	Asp	Glu	Pro	Trp	Asn	Phe	Ile	Ser	Glu	Arg	Ser	Cys
	130					135						140			

Ile	Tyr	Glu	Glu	Lys	Leu	Lys	Lys	Gln	Gln	Asp	Lys	Asn	Glu	Asn	Leu
145					150					155				160	

Gln Ile Ile Ser Val Ala His Thr Lys Ile Leu Thr Xaa Asp Arg Ser  
165 170 175  
His Lys Asn Val Glu Phe Ala Gln Asn Phe Tyr Leu Lys Ser Xaa Phe  
180 185 190  
Ile Lys His Xaa Xaa Ile Ala  
195

<210> 1166  
<211> 91  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166  
Trp Cys Cys Ser His Leu Trp Phe Gln Gly Arg Ala Thr Pro Glu Asn  
1 5 10 15  
Tyr Leu Phe Gln Gly Arg Gln Glu Cys Tyr Ala Phe Asn Gly Asn Ser  
20 25 30  
Gln Lys Asp Ile Leu Glu Glu Lys Ala Gly Ser Ala Gly Thr Gly Cys  
35 40 45  
Ala Asp Thr Thr Tyr Gly Ala Gly Arg Ala His Gly Pro Cys Ser Ala  
50 55 60  
Glu Phe Gln Pro Arg Val Glu Cys Phe Pro Pro Pro Ser Arg Gly Pro  
65 70 75 80  
Leu Ala Ala Thr Gln Xaa Ala Cys Leu Ala Lys  
85 90

<210> 1167  
<211> 118  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1167

Asn Val Pro Ala Tyr Lys Ser Ser Gly Gln Ile Met Ser Ser Leu Tyr  
1 5 10 15

Tyr Ala Asn Ala Leu Phe Ser Lys Tyr Pro Ala Ser Ser Ser Val Phe  
20 25 30

Ala Thr Gly Ala Phe Pro Glu Gln Thr Ser Cys Ala Phe Ala Ser Asn  
35 40 45

Pro Gln Arg Pro Gly Tyr Gly Ala Gly Ser Gly Ala Ser Phe Ala Ala  
50 55 60

Ser Met Gln Gly Leu Tyr Pro Gly Gly Gly Gly Met Ala Gly Gln Ser  
65 70 75 80

Ala Xaa Gly Val Tyr Ala Ala Gly Tyr Gly Leu Glu Pro Xaa Ser Phe  
85 90 95

Asn Met His Cys Ala Pro Phe Glu Gln Lys Pro Leu Arg Gly Xaa Pro  
100 105 110

Xaa Xaa Ile Pro Xaa Arg  
115

<210> 1168  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168  
Ser Arg Ser Trp Gly Phe Gly Cys Ser Met Leu Ala Leu Glu Thr Arg  
1 5 10 15  
Ala Xaa Pro Gly His Xaa Xaa Gly Cys Val Thr Phe Val Leu Asn Asp  
20 25 30  
His Ser Met Ala Phe Thr Gly Asp Ala Leu Leu Ile Arg Gly Cys Xaa  
35 40 45  
Arg Thr Asp Phe Gln Gln Gly Cys Cys Gln Asp Leu Val Thr Ile Arg  
50 55 60  
Ser Met Lys Arg Ser Phe Lys Ile Ser Arg Arg Leu Ser  
65 70 75

<210> 1169  
<211> 115  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 1169

Gly Pro Arg His Ala Asp Phe Pro Cys Ser Ala Val Val Arg Lys Cys  
 1 5 10 15

Leu Ala Ala Pro Gly Arg Arg Arg Gly Arg Gln Thr Tyr Ser Arg Phe  
 20 25 30

Gln Thr Leu Glu Leu Glu Lys Glu Phe Leu Phe Asn Pro Tyr Leu Thr  
 35 40 45

Arg Lys Arg Arg Ile Glu Val Ser His Ala Leu Ala Leu Thr Glu Arg  
 50 55 60

Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys Glu  
 65 70 75 80

Asn Asn Lys Asp Lys Phe Pro Val Ser Arg Gln Glu Val Lys Asp Gly  
 85 90 95

Glu Thr Lys Lys Glu Ala Gln Glu Leu Glu Glu Asp Arg Ala Glu Gly  
 100 105 110

Leu Thr Asn  
 115

&lt;210&gt; 1170

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1170

Tyr Leu Lys Arg Leu Ala Thr Met Ser Lys Pro Glu Leu Lys Glu Asp  
 1 5 10 15

Lys Met Leu Glu Val His Phe Val Gly Asp Asp Asp Val Leu Asn His  
 20 25 30

Ile Leu Asp Arg Glu Gly Gly Ala Lys Leu Lys Lys Glu Arg Ala His  
 35 40 45

Phe Trp Ser Thr Pro Lys Lys  
 50 55

&lt;210&gt; 1171

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1171

Pro Thr Arg Pro Xaa Thr Xaa Pro Phe Gly Pro Arg Trp His Gly Met  
1 5 10 15

Arg Lys Ala Leu Pro Trp Xaa Leu Val Xaa Leu Ala Ser Leu Arg Ala  
20 25 30

Val Xaa Thr Ser Xaa Met Xaa Thr Leu Pro Lys Arg Xaa Lys Ile Val  
35 40 45

Glu Val Gly Pro Arg Asp Gly Leu Gln Asn Glu Lys Asn Ile Val Ser  
50 55 60

Thr Pro Val Lys Ile Lys Leu Ile Asp Met Leu Ser Glu Ala Gly Leu  
65 70 75 80

Ser Val Ile Glu Thr Thr Xaa Phe Glu Ser Pro Lys Trp Val Pro Gln  
85 90 95

Met Gly Asp His Thr Glu Val Leu Lys Gly Ile Xaa Lys Phe Pro Gly  
100 105 110

Ile Asn Tyr Pro Val Leu Thr Pro Asn Leu Lys Gly Phe Glu Ala Xaa  
115 120 125

Xaa Pro  
130

&lt;210&gt; 1172

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1172  
Ala Arg Glu Asp Leu Asp Lys Ala Leu Leu Lys Ala Xaa Gln Asp Met  
1 5 10 15  
Phe Asp Lys Lys Thr Lys Ala Ser Leu Tyr Leu Xaa Thr His Asn Gly  
20 25 30  
Asn Met Tyr Thr Ser Ser Leu Tyr Gly Cys Leu Ala Ser Xaa Leu Ser  
35 40 45  
His His Xaa Ala Gln Glu Leu Ala Gly Ser Arg Ile Gly Ala Phe Ser  
50 55 60  
Tyr Gly Ser Gly Leu Ala Ala Ser Phe Phe Ser Phe Arg Val Ser Arg  
65 70 75 80  
Leu Lys Val Phe Cys Arg Ser Met Glu Ser Phe Trp Glu Thr Tyr Ala  
85 90 95  
Ser Arg Ala Ser Xaa Arg Xaa Ser Tyr Phe  
100 105

<210> 1173  
<211> 28  
<212> PRT

<213> Homo sapiens

<400> 1173

Pro Cys Lys Gly Ser Ile Ile Thr Cys Ser Leu Asn Arg Asp Leu Tyr  
1 5 10 15

Glu Trp Leu His Glu Gly Ser Ala Val Ser Tyr Phe  
20 25

<210> 1174

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1174

Ile Ile Thr Cys Ser Leu Ile Arg Asp Leu Tyr Glu Trp Leu His Glu  
1 5 10 15

Gly Ser Ala Val Ser Tyr Phe  
20

<210> 1175

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1175

Ala Ala Ser Ser Ile Cys Leu Xaa Gln Arg Leu Ser His Ala Cys Leu  
1 5 10 15

Ser Thr His Gly Arg Tyr Ser Glu Thr Ala Asn Gly Ser Leu Asn Gln  
20 25 30

Leu Trp Phe Leu Trp Ser Leu Ala Pro Leu Leu Leu Gly  
35 40 45

<210> 1176

<211> 86

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1176  
 Arg Pro Glu Asp Ser Leu Phe Cys Pro Lys Met Glu Asn Ser Thr Thr  
     1                  5                  10                  15  
 Thr Ile Ser Arg Glu Glu Leu Xaa Glu Leu Gln Glu Ala Phe Asn Lys  
                   20                  25                  30  
 Ile Asp Xaa Xaa Asn Ser Gly Tyr Val Ser Asp Tyr Xaa Leu Gln Asp  
           35                  40                  45  
 Leu Phe Lys Glu Ala Ser Leu Pro Leu Pro Gly Tyr Lys Val Arg Glu  
       50                  55                  60  
 Ile Xaa Glu Lys Ile Leu Ser Val Ala Asp Ser Asn Lys Asp Gly Lys  
   65                  70                  75                  80  
 Ile Asn Phe Glu Glu Phe  
                   85

<210> 1177  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> SITE  
<222> (157)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (158)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1177  
Ile Thr Ile Ser Phe Phe Leu Cys Leu Arg Pro Pro Thr Phe Phe Ser  
1 5 10 15  
Phe Pro Phe Ser Leu Trp Gly Pro Ser Pro Met Leu Pro Cys Pro Ile  
20 25 30  
Pro Phe Ser Pro Ser Arg Leu Leu Ile Pro Pro Phe Pro Ser Phe Pro  
35 40 45  
Ser Asn Tyr Gln Leu Trp Leu Gly Arg His Asn Leu Phe Asp Asp Glu  
50 55 60  
Asn Thr Ala Gln Phe Val His Val Ser Glu Ser Phe Pro His Pro Gly  
65 70 75 80  
Phe Asn Met Ser Leu Leu Glu Asn His Thr Arg Gln Ala Asp Glu Asp  
85 90 95  
Tyr Ser His Asp Leu Met Leu Leu Arg Leu Thr Glu Pro Ala Asp Thr  
100 105 110  
Ile Thr Asp Ala Val Lys Val Gly Lys Leu Pro Thr Gln Glu Pro Glu  
115 120 125  
Val Gly Glu His Leu Val Gly Phe Arg Leu Gly Gln Ala Leu Asn Gln  
130 135 140  
Lys Asn Phe Leu Ile Ser Glu Asp Leu Gln Met Val Xaa Xaa Leu Gln  
145 150 155 160  
Lys Ser Xaa Leu Lys Glu  
165

<210> 1178  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178  
Cys Xaa Ala Ala Gly Pro Ser Cys Ala Leu Lys Ala Gly Lys Thr Ala  
1 5 10 15  
Ser Gly Ala Gly Glu Val Val Arg Cys Leu Ser Glu Gln Ser Val Gly  
20 25 30  
His Leu Ala Leu Arg Arg Gly Pro Gly Ala Arg Leu Pro Ala Leu Leu  
35 40 45  
Asp Glu Gln Gln Val Asn Val Leu Leu Tyr Asp Met Asn Gly Cys Tyr  
50 55 60  
Ser Arg Leu Lys Glu Leu Val Pro Thr Leu Pro Gln Asn Arg Lys  
65 70 75

<210> 1179  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1179

Ala Xaa Val Gln Leu Thr Leu Xaa Xaa Thr Gln Cys Pro Xaa Gly Lys  
1 5 10 15

Ser Val Xaa Cys His Val Lys Ala Leu His Asp Ser Xaa Pro Gly Cys  
20 25 30

Asn Cys Ala Pro Ala Gln Phe Pro Xaa Leu Pro His Ala Ala Xaa Pro  
35 40 45

Asp Xaa Gly  
50.

<210> 1180

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Ile	Ser	Arg	Thr	Pro	Glu	Gly	His	Val	Arg	Gly	Gly	Gly	Arg	Glu	Ala
1				5					10					15	

Arg	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu
		20						25					30		

Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Xaa	Glu	Gln	Phe	Asn	Ser	Thr
		35					40						45		

Tyr	Xaa	Trp	Phe	Ser	Val	Leu	His	Arg	Pro	Ala	Pro	Gly	Trp	Leu	Glu
	50					55					60				

Arg	Gln	Gly	Ser	Tyr	Lys	Trp	Gln	Gly	Phe	Xaa	Thr	Lys	Gly	Phe	Pro
65					70					75					80

Xaa	Phe	Leu	Gly	Glu	Asn	Leu	Phe	Xaa	Lys	Ala	Lys	Gly	Gln	Xaa	Arg
					85				90						95



<210> 1181  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1181  
Gly Gly Tyr Cys Ser Gly Gly Ser Cys Ser Asn Phe Tyr Phe Tyr His  
1 5 10 15  
Met Asp Val Trp Gly Glu Arg Thr Thr Val Thr Val Ser Ser Ala Ser  
20 25 30  
Thr Xaa Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Xaa Asn Thr  
35 40 45  
Ser Glu Asn Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro  
50 55 60  
Glu Thr Gly Asp Gly Val Leu Glu Leu Arg Gly Leu  
65 70 75

<210> 1182  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1182

Asp	Pro	Tyr	Gly	Thr	Met	Glu	Ala	Pro	Ala	Gln	Leu	Leu	Xaa	Leu	Leu
1					5					10				15	

Leu	Leu	Trp	Leu	Pro	Xaa	Thr	Thr	Gly	Glu	Ile	Leu	Met	Thr	Gln	Ser
			20					25						30	

Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly	Glu	Arg	Val	Thr	Leu	Ser	Cys
		35					40					45			

Arg	Ala	Gly	Gln	Ser	Val	Tyr	Ser	Asn	Leu	Ala	Trp	Tyr	Gln	Gln	Lys
	50					55					60				

Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Met	Tyr	Gly	Ser	Ser	Thr	Xaa	Ala
	65				70					75					80

Thr	Asp	Val	Pro	Val	Arg	Phe	Ser	Gly	Xaa	Gly	Ser	Gly	Thr	Glu	Phe
				85					90					95	

Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ser	Asp	Asp	Ser	Ala	Val	Tyr	Xaa
			100					105					110		

Cys	Gln	Gln	Tyr	Ile	Met	Trp	Pro	Gly	Thr	Phe	Gly	Xaa	Gly	Thr	Lys
		115					120					125			

Gly Glu Ile Xaa Arg Thr Gly Xaa Ala  
130 135

<210> 1183

<211> 93

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1183

Val Arg Xaa Xaa Xaa Phe Gly Ser Thr Ala Pro Ser Ala Asp Ala Trp  
1 5 10 15

Val Arg Thr Arg Gly Arg Thr Arg Gly Ala Glu Ala Ala Lys Met Leu  
20 25 30

Gly Glu Ala Leu Ser Lys Asn Pro Gly Tyr Ile Lys Leu Arg Lys Ile  
35 40 45

Arg Ala Ala Gln Asn Ile Ser Lys Thr Ile Ala Thr Ser Gln Asn Arg  
50 55 60

Ile Tyr Leu Thr Ala Asp Asn Leu Val Leu Asn Leu Gln Asp Glu Ser  
65 70 75 80

Phe Thr Arg Gly Ser Asp Ser Leu Ile Lys Gly Lys Lys  
85 90

<210> 1184

<211> 46

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1184  
Ile Asp Leu Met Cys Lys Lys Met Lys His Leu Trp Phe Phe Leu Leu  
1 5 10 15  
Leu Val Ala Val Ser Xaa Met Arg Pro Val Pro Gly Ala Ala Ala Xaa  
20 25 30  
Val Xaa Ala Arg Thr Gly Glu Xaa Phe Gly Asp Pro Val Xaa  
35 40 45

<210> 1185  
<211> 142  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (69)  
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<220>  
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<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1185

Ser Ala Leu Asn Thr Glu Leu Thr Met Glu Phe Gly Leu Ser Trp Val  
1 5 10 15

Phe Leu Val Val Ile Leu Lys Gly Val Gln Cys Glu Val Gln Leu Val  
20 25 30

Glu Ser Gly Gly Ala Val Val Gln Pro Gly Gly Ser Leu Arg Leu Ser  
35 40 45

Cys Glu Ala Ser Gly Phe Thr Phe Asp Asn Tyr Ala Met His Trp Val  
50 55 60

Arg Gln Ala Pro Xaa Lys Gly Leu Glu Trp Val Cys Leu Ile Ser Arg  
65 70 75 80

Asp Gly Arg Lys Thr Tyr Phe Ala Asp Ser Met Lys Gly Arg Phe Thr  
85 90 95

Ile Ser Arg Asp Asn Ser Lys Asn Cys Leu Tyr Leu Gln Val Asn Ser  
100 105 110

Leu Arg Val Glu Asp Thr Xaa Leu Tyr Tyr Cys Ala Lys Asp Ile Pro  
115 120 125

Gly Ser Ser Val Trp Thr Ser Gly Val Xaa Gly His Xaa Xaa  
130 135 140

<210> 1186

<211> 68

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1186

Ser Trp Thr Pro Arg Pro Phe His Leu Val Ile Ser Thr Glu His Arg  
1 5 10 15

Gly Leu Thr Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile  
20 25 30

Leu Glu Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly  
35 40 45

Leu Val Gln Ala Gly Gly Val Pro Glu Thr Leu Leu Xaa Xaa Leu Trp  
50 55 60

Leu Pro Pro Leu  
65

&lt;210&gt; 1187

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (182)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (191)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1187  
Gly Arg Glu Ile Xaa Arg Ser Phe His Leu Val Ile Ser Thr Glu His  
1 5 10 15  
Arg Pro Pro Thr Met Glu Phe Gly Pro Ser Trp Val Phe Leu Val Ala  
20 25 30  
Ile Leu Lys Gly Val His Cys Glu Val Gln Leu Val Glu Ser Gly Gly  
35 40 45  
Gly Leu Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Thr Thr Ser  
50 55 60  
Gly Phe Thr Phe Gly Asp Tyr Ser Met Ser Trp Val Arg Gln Ala Pro  
65 70 75 80  
Gly Lys Gly Leu Glu Trp Val Gly Phe Ile Arg Ser Lys Ala His Gly  
85 90 95  
Gly Thr Thr Glu Tyr Ala Ala Ser Val Lys Arg Gln Ile His His Leu  
100 105 110  
Lys Glu Met Ile Pro Gln Ala Ser Xaa Ile Trp Gln Met Asn Ser Leu  
115 120 125  
Lys Pro Arg Thr Gln Thr Leu Leu Ser Arg His Asp Tyr Arg His  
130 135 140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly  
145                      150                      155                      160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa  
                    165                      170                      175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa  
                    180                      185                      190

<210> 1188

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1188

Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Xaa Leu Val Gln  
1 5 10 15  
Pro Gly Gly Ser Leu Xaa Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe  
20 25 30  
Ser Ser Xaa Asp Met His Trp Val Arg Gln Val Ala Gly Lys Xaa Leu  
35 40 45  
Glu Trp Val Ser Xaa Ile Asp Pro Ala Gly Asn Thr Asn Tyr Pro Xaa  
50 55 60  
Ser Val Xaa Gly Arg Phe Ile Ile Ser Arg Glu Asn Asp Lys Ser Ser  
65 70 75 80  
Ser Tyr Leu Gln Asn Glu Trp Ala Asp Xaa Arg Gly Lys Xaa Cys Val  
85 90 95  
Ile Leu Xaa Lys Xaa Lys Leu Xaa Phe Leu Val Xaa Gly Xaa Xaa Arg  
100 105 110  
Ser Leu Gly Ala Xaa Gly Xaa Leu Gly  
115 120

&lt;210&gt; 1189

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1189

Gly	Thr	Ser	Asn	Ala	Gly	Asn	Xaa	Asn	Thr	Lys	Tyr	Ser	Gln	Lys	Xaa
1				5					10					15	

Gln	Asp	Arg	Val	Thr	Ile	Thr	Arg	Asp	Thr	Ser	Thr	Asn	Thr	Ala	Tyr
	20						25						30		

Met	Asp	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
	35					40						45			

Xaa	Arg	Gly	Phe	Phe	Gly	Asp	Arg	Asp	Tyr	Tyr	Tyr	Tyr	Tyr	Tyr	Met
	50				55				60						

Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Pro
65				70					75					80	

Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu	Cys	Ser	Thr	Gln	Pro	Asp
			85					90					95		

Gly	Asn	Val	Val	Ile	Ala	Cys	Xaa	Val	Gln	Gly	Phe	Phe	Pro	Gln	Glu
	100						105						110		

Pro	Leu	Gln	Cys	Gly	Pro	Gly	Ala	Lys	Gly	Xaa	Arg	Ala
	115					120					125	

&lt;210&gt; 1190

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1190

Asn	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp
1				5					10					15	

Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Leu	Pro	Ala	Glu
	20						25					30		

&lt;210&gt; 1191

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1191  
 Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala  
 1 5 10 15  
 Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ala Val  
 20 25 30  
 Val Phe Gly Gly Gly Thr Arg Leu Thr Xaa Leu Xaa Gln Pro Lys Ala  
 35 40 45  
 Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Xaa Glu Leu Gln Ala  
 50 55 60  
 Asn Lys Ala Thr Leu Val Cys Leu Ile Asn Asp Phe Tyr Pro Gly Ser  
 65 70 75 80

Arg Asp Ser Gly Leu Glu Xaa Gln Ile Xaa Thr Pro Phe Xaa Ala Glu  
                     85                    90                    95

Leu Gly Xaa Thr Thr Thr  
                     100

<210> 1192

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1192

Arg Pro Thr Arg Pro Gln Leu Trp Ala Gln Glu Ala Ala Leu Arg Thr  
   1                    5                    10                    15

Ile Ser Ser Met Ala Trp Ser Pro Leu Leu Thr Leu Leu Ala His  
                     20                    25                    30

Cys Thr Gly Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val  
                     35                    40                    45

Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser  
                     50                    55                    60

Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro  
   65                    70                    75                    80

Gly Thr Ala Pro Lys Val Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser  
                     85                    90                    95

Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser  
100 105 110  
Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Xaa Val Asp Tyr Tyr Cys  
115 120 125  
Gln Ser Tyr Asp Ser Ser Leu Gly Gly Ser Val Phe Gly Gly Arg Thr  
130 135 140  
Lys Leu Xaa Val Leu Xaa Gln Pro Lys Xaa Ala Pro Ser Val Thr Leu  
145 150 155 160

<210> 1193  
<211> 153  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1193

Thr Gly Phe Arg Thr Ile Xaa Thr Met Ala Gly Phe Pro Leu Leu Leu  
1 5 10 15

Thr Leu Leu Thr His Cys Ala Xaa Ser Trp Ala Xaa Xaa Val Leu Thr  
20 25 30

Xaa Pro Pro Ser Xaa Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
35 40 45

Cys Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Tyr Val Tyr Trp Tyr  
50 55 60

Gln Gln Leu Pro Gly Thr Ala Pro Glu Val Leu Ile Tyr Lys Asn Asp  
65 70 75 80

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
85 90 95

Thr Ser Ala Ser Leu Ala Ile Gly Gly Leu Arg Ser Glu Asp Glu Ala  
100 105 110

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe  
115 120 125

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro  
 130 135 140

Ser Xaa Thr Leu Xaa Pro Xaa Xaa Xaa  
 145 150

<210> 1194

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1194

Gly Gly Arg Ala Leu Gly Ile Ser Pro Trp Pro Gly Pro Leu Ser Cys  
 1 5 10 15

Ser Pro Ser Ser Leu Ser Ala Gln Arg Lys Arg Gly Gln Ala Pro Val  
 20 25 30

Val Val Ile Tyr Glu Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg  
 35 40 45

Phe Ser Gly Ser Thr Ser Gly Thr Leu Ala Thr Val Ile Ile Ser Gly  
 50 55 60

Ala Gln Val Asp Asp Asp Thr Asp Phe Tyr Cys Gln Ser Thr His Ser  
 65 70 75 80

Ser Asn Asn Gly Arg Ser Val Cys Leu Arg Asn Trp Asp Gln Gly His  
 85 90 95

Arg Pro Trp Ser Ala Gln Gly Gln Pro Gln Cys Xaa Ser Val Pro Gly  
 100 105 110

Leu Leu

<210> 1195

<211> 97

<212> PRT

<213> Homo sapiens



<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1195  
 Gln Asn Ser Xaa Cys Leu Thr Met Ala Trp Ile Pro Leu Leu Leu Pro  
 1 5 10 15  
 Leu Leu Thr Leu Cys Thr Asp Ser Glu Ala Ser His Glu Leu Arg Gln  
 20 25 30  
 Pro Xaa Ser Val Ser Val Ser Pro Xaa Gln Thr Ala Xaa Ile Thr Xaa  
 35 40 45  
 Ser Gly Asp Ala Leu Pro Glu Gln Ser Ile Phe Trp Tyr Gln Gln Lys  
 50 55 60  
 Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Lys Val His Glu Arg Pro  
 65 70 75 80  
 Ser Asp Ala Leu Asn Asp Ser Leu Ala Pro Gly His Arg Gln Gln Ser  
 85 90 95

Arg

<210> 1196  
 <211> 192

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<400> 1196  
 Ile Xaa Leu Thr Lys Gly Asn Lys Arg Trp Ser Ser Thr Xaa Val Ala  
     1                    5                    10                    15  
 Ala Ala Leu Glu Xaa Leu Asp Pro Pro Gly Cys Pro Gly Ser Ala Xaa  
                     20                    25                    30  
 Xaa Asp Asn Xaa Gly Xaa Val Gly Ser Gly Pro Pro Asn Pro Asp Leu  
                     35                    40                    45  
 Ser Xaa Thr Xaa Leu Asp Gln Tyr Xaa Ala Met Xaa Xaa Xaa Xaa His  
                     50                    55                    60  
 Gly Xaa Asn Met Glu Xaa Ala Leu Gly Met Leu Phe Trp His Xaa Xaa  
     65                    70                    75                    80  
 Asn Ile Gln Xaa Ser Xaa Ala Asp Leu Pro Asn Xaa Thr Pro Phe Pro  
                     85                    90                    95  
 Asp Lys Trp Thr Val Glu Asp Lys Xaa Leu Phe Xaa Gln Ala Phe Thr  
                     100                    105                    110  
 Phe His Gly Lys Thr Phe His Thr Ile Gln Pro Met Xaa Pro His Lys  
                     115                    120                    125  
 Ser Ile Xaa Xaa Leu Val Lys Xaa Tyr Tyr Ser Trp Lys Lys Asp Glu  
     130                    135                    140  
 Asp Xaa Asn Tyr Cys Asp Gly Ser Pro Cys Pro Gly Asn Xaa Thr Gly  
     145                    150                    155                    160

Arg Glu Glu Xaa Xaa Asp Glu Leu Glu Gln Ala Asn Gly Thr Ile Pro  
165 170 175

Xaa Xaa Leu Lys Leu Asp Pro Asn Gln Glu Xaa Gln Arg Glu Val Pro  
180 185 190

<210> 1197

<211> 43

<212> PRT

<213> Homo sapiens

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<400> 1197

Glu Gln Asn Leu Asp Arg Gln Val Leu Xaa Thr Gln Cys Ile Arg Leu  
1 5 10 15

Glu Ala Arg Tyr Tyr Ser Leu Ser Leu Thr Xaa Xaa Xaa Leu Ser His

20 25 30

Ile Val Ala Glu Leu Arg Asn Xaa Lys Xaa Lys  
35 40

<210> 1198  
<211> 98  
<212> PRT  
<213> Homo sapiens

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Val Ser Pro Ala Ser Thr Asn Cys Gln Ser Gln Glu Asn Phe Glu Ala  
1 5 10 15  
Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln Lys Gly Lys  
20 25 30  
Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly Lys His Phe Lys  
35 40 45  
Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln Asn Glu Phe Thr Val  
50 55 60  
Gly Glu Glu Cys Glu Leu Glu Thr Met Thr Gly Glu Lys Val Lys Thr  
65 70 75 80  
Val Val Gln Leu Glu Gly Asp Xaa Lys Leu Val Thr Thr Phe Lys Asn  
85 90 95  
Ile Lys

<210> 1199  
<211> 184  
<212> PRT  
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<220>

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<400> 1199

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Gly Gly Arg Phe Xaa Gly  
20 25 30

Ser Lys Xaa Thr Xaa Xaa Cys Xaa Xaa Arg Xaa Xaa Xaa Xaa Ile Gly  
35 40 45

Ser Pro Lys Xaa Asn Xaa Leu Ala Val Val Leu Gln Arg Arg Asp Trp  
50 55 60

Xaa Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa Xaa Pro Xaa  
65 70 75 80

Phe Ala Xaa Trp Arg Asn Xaa Xaa Lys Ala Arg Thr Asp Arg Xaa Ser  
85 90 95

Xaa Gln Leu Xaa Ser Leu Asn Gly Lys Trp Asp Xaa Pro Cys Ser Gly  
100 105 110

Ala Leu Ser Xaa Ala Gly Val Gly Val Thr Xaa Ser Val Thr Val Thr  
115 120 125

Xaa Ala Xaa Ala Xaa Ala Pro Xaa Pro Phe Xaa Phe Phe Pro Ser Phe  
130 135 140

Phe Ala Thr Phe Ala Gly Phe Pro Arg Lys Ala Leu Asn Gly Gly Leu  
145 150 155 160

Pro Xaa Gly Phe Arg Phe Arg Ala Leu Arg Asp Leu Asp Pro Lys Lys  
165 170 175

Leu Xaa Leu Gly Gly Trp Phe Thr  
180

<210> 1200

<211> 83

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1200

Gly Pro Glu Met Gln Val Lys Leu Leu Gln Ser Leu Gly Leu Lys Ser  
 1 5 10 15

Thr Leu Ile Thr Asp Gly Ser Thr Pro Ile Asn Leu Phe Asn Thr Ala  
 20 25 30

Phe Gly Leu Leu Gly Met Gly Pro Glu Gly Pro Ala Pro Gly Gln Lys  
 35 40 45

Gly Trp His Trp Ala Gln Pro Trp Lys Gly Asp Ile Pro Pro Val Leu  
 50 55 60

Leu Lys Pro Leu Lys Leu Leu Glu Asn Thr Thr Leu Cys Leu Phe Cys  
 65 70 75 80

Ala Tyr Ser

&lt;210&gt; 1201

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1201

Leu Leu Phe Leu Gly Pro Val Gly Leu Ile Met Tyr Leu Gly Gly Val  
 1 5 10 15

Phe Phe Ile Asn Arg Gln Arg Ser Ser Thr Ala Met Thr Val Met Ala  
 20 25 30

Asp Leu Gly Glu Arg Met Val Arg Glu Asn Leu Lys Val Trp Ile Tyr  
 35 40 45

Pro Glu Gly Thr Arg Asn Asp Asn Gly Asp Leu Leu Pro Phe Lys Lys  
 50 55 60

Gly Ala Phe Tyr Leu Ala Val Gln Ala Xaa Val  
 65 70 75

&lt;210&gt; 1202

&lt;211&gt; 179

<212> PRT  
<213> Homo sapiens

<220>  
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<222> (44)  
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<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<400> 1202

Lys	Gln	Arg	Ser	Glu	Asp	Ser	Met	Tyr	Thr	Ala	Ile	Pro	Gln	Ser	Gly
1				5					10					15	
Ser	Pro	Phe	Pro	Gly	Ser	Val	Gln	Asp	Pro	Gly	Leu	His	Val	Trp	Arg
			20					25						30	
Val	Glu	Lys	Leu	Lys	Pro	Val	Pro	Val	Ala	Gln	Xaa	Asn	Gln	Gly	Ile
		35					40						45		
Phe	Phe	Ser	Gly	Asp	Ser	Tyr	Leu	Val	Leu	His	Asn	Gly	Pro	Glu	Glu
	50					55						60			
Val	Ser	His	Leu	His	Leu	Asn	Thr	Leu	Leu	Gly	Glu	Arg	Pro	Val	Gln
	65				70					75					80
His	Arg	Glu	Val	Arg	Gly	Asn	Glu	Ser	Asp	Leu	Phe	Met	Ser	Tyr	Phe
				85					90					95	
Pro	Arg	Gly	Phe	Lys	Tyr	Gln	Glu	Gly	Gly	Leu	Xaa	Ser	Ala	Phe	His
			100					105						110	
Lys	Thr	Ser	Thr	Gly	Ala	Pro	Val	Ala	Ile	Lys	Lys	Xaa	Tyr	Gln	Val
		115					120						125		

Lys Gly Xaa Xaa Lys Ser Val Gln Arg Xaa Gly Met Asn Trp Glu Xaa  
 130 135 140

Xaa Asn Xaa Gly Cys Leu Pro Gly Xaa Gly Lys Asn Xaa Xaa Gly Leu  
 145 150 155 160

Xaa Asn Gln Ile Trp Xaa Lys Arg Gly Asp Cys Leu Asp Arg Asp Xaa  
 165 170 175

Gln Gly Ser

<210> 1203

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1203

Leu Phe Leu Asp Ser Val Gly Gly Gly Ala Trp Pro Phe Leu Val Gly  
 1 5 10 15

Gly Ala Ile Cys Leu Val Asn Ser Asp Asn Glu Arg Asp Ser Gly Met  
 20 25 30

Leu Thr Ser Tyr Ala Thr Pro Glu Arg Ser Ala Ser Pro Asn Phe Leu  
 35 40 45

Glu Gly Gln Val Ala Phe Ser His Pro Arg Leu Ser Asn Asn Arg Ser  
 50 55 60

Val Met Pro Leu Asp Val Arg Gly Cys Thr Arg Ala Thr Leu Thr Gly  
 65 70 75 80

Ser Ala Cys Ala Tyr Pro Thr Pro Ala Gly Ala Gly Asn Pro Leu Asn  
 85 90 95

Pro Ile Arg Asp Gly Asp Arg Gly Leu Gln Leu Phe Pro Met Asn Glu  
 100 105 110

Glu Phe Pro Val Ser Ala Gly His Lys Leu Ala Leu Ile Lys Ser Leu  
115 120 125

Pro Leu Gln Pro Phe Trp Xaa Phe Gly Pro Leu Xaa Leu Phe His Leu  
130 135 140

Ser  
145

<210> 1204

<211> 72

<212> PRT

<213> Homo sapiens

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<222> (12)

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<400> 1204  
 Pro Arg Pro Ala Gly Asn Ser Ser Arg Val His Xaa Glu Gly Thr Thr  
           1                  5                  10                  15  
 Val Leu Xaa Xaa Gln Phe Gly Leu Asn Ala Ser Xaa Ser Arg Phe Phe  
                   20                  25                  30  
 Leu Gln Xaa Xaa Gln Leu Ile Thr Ile Leu Pro Val Arg Gln Arg Xaa  
           35                  40                  45  
 Leu Pro Leu Lys Xaa Ala Asn Xaa Xaa Leu Thr Xaa Pro Ala Ala Thr  
           50                  55                  60  
 Val Arg Gln Phe Leu Gln Val Pro  
           65                  70

<210> 1205  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1205  
 Thr Pro Leu Gly Val Pro Val Ile Gln Pro Tyr Arg Leu Asp Ser Lys  
           1                  5                  10                  15  
 Val Lys Gln Ile Gly Gly Gly Ile Gln Ser Ile Thr Tyr Thr His Asn  
           20                  25                  30

Gly Asp Ile Ser Arg Lys Pro Asn Thr Arg Lys Gln Lys Asn Gly Phe  
35 40 45  
Pro Pro Asn Phe Ile His Ser Leu Asp Ser Ser His Met Met Leu Thr  
50 55 60  
Ala Leu His Cys Tyr Arg Lys Gly Leu Thr Phe Val Ser Val His Asp  
65 70 75 80  
Cys Tyr Trp Thr His Ala Ala Asp Val Ser Val Met Asn Gln Val Cys  
85 90 95  
Arg Glu Gln Phe Val Arg Leu His Ser Glu Pro Ile Leu Gln Asp Leu  
100 105 110  
Ser Arg Phe Leu Val Lys Arg Phe Cys Ser Glu Pro Gln Lys Ile Leu  
115 120 125  
Glu Ala Ser Gln Leu Lys Glu Thr Leu Gln Ala Val Pro Lys Pro Gly  
130 135 140  
Ala Phe Asp Leu Glu Gln Val Lys Arg Ser Thr Tyr Phe Phe Ser  
145 150 155

<210> 1206

<211> 109

<212> PRT

<213> Homo sapiens

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<222> (9)

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<221> SITE

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<400> 1206  
 Gln Met Tyr Gly Thr Asn Lys Met Xaa Pro Tyr Arg Asp Ser Lys Leu  
           1                  5                  10                  15  
 Thr His Leu Phe Lys Asn Tyr Phe Asp Gly Glu Gly Lys Val Arg Met  
                   20                  25                  30  
 Ile Val Tyr Val Asn Pro Lys Ala Xaa Asp Tyr Xaa Glu Asn Xaa Gln  
           35                  40                  45  
 Val Met Arg Phe Ala Glu Val Thr Gln Glu Val Glu Val Ala Arg Pro  
           50                  55                  60  
 Val Asp Lys Val Ile Cys Gly Leu Thr Pro Xaa Arg Arg Tyr Arg Asn  
           65                  70                  75                  80  
 Gln Xaa Arg Gly Pro Val Gly Asn Xaa Pro Leu Gly Thr Asp Val Val  
                   85                  90                  95  
 Xaa Gln Ser Phe Pro Pro Leu Pro Xaa Met Arg Asn Phe  
           100                  105

<210> 1207  
 <211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1207

Asn Xaa Lys Leu Ser Glu Gln Glu Leu Gln Phe Arg Arg Leu Ser Gln  
1 5 10 15

Glu Gln Val Asp Asn Phe Thr Leu Asp Ile Asn Thr Ala Tyr Ala Arg  
20 25 30

Leu Arg Gly Ile Glu Gln Ala Val Gln Ser His Ala Val Ala Glu Glu  
35 40 45

Glu Ala Arg Lys Ala His Gln Leu Trp Leu Ser Val Glu Ala Leu Lys  
50 55 60

Tyr Ser Met Xaa Asp Leu His Leu Ala Glu Thr Pro Thr Ile Pro Leu  
65 70 75 80

Gly Ser Gly Ser

<210> 1208

<211> 57

<212> PRT

<213> Homo sapiens

<220>

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1208

Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly Cys  
1 5 10 15

Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr Phe  
20 25 30

Val Met Tyr Ser Xaa Gln Ala Gln Ala Leu Asp His Ser Xaa Leu Leu  
35 40 45

Leu Gln Arg Xaa Xaa Asn Gln Pro Ala  
50 55

<210> 1209

<211> 84

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209

Ala Xaa Asp Gln Ala Gly Glu Val Asp His Thr Leu Leu Gly Gln Cys  
1 5 10 15

Thr Gly Gly Gly Tyr Phe Met Gln Phe Xaa Thr Ser Ser Gly Ser Ala  
20 25 30

Glu Glu Ala Ala Leu Leu Glu Ser Arg Ile Leu Tyr Pro Lys Arg Lys  
35 40 45

Gln Gln Cys Leu Gln Phe Phe Tyr Lys Met Xaa Gly Glu Val Leu Xaa  
50 55 60

Asp Arg Leu Arg Cys Leu Gly Xaa Gly Gly Asp Asp Ser Thr Gly Asn  
65 70 75 80

Val Arg Asn Trp

<210> 1210

<211> 129

<212> PRT

<213> Homo sapiens

<220>

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<222> (106)

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<220>

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<222> (124)

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<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1210

Leu Leu Asn Asp Ala Val Thr Val Val Leu Tyr His Leu Phe Glu Glu  
1 5 10 15

Phe Ala Asn Tyr Glu His Val Gly Ile Val Asp Ile Phe Leu Gly Phe  
           20                          25                          30  
 Leu Ser Phe Phe Val Val Ala Leu Gly Gly Val Leu Val Gly Val Val  
           35                          40                          45  
 Tyr Gly Val Ile Ala Ala Phe Thr Ser Arg Phe Thr Ser His Ile Arg  
           50                          55                          60  
 Val Ile Glu Pro Leu Phe Val Phe Leu Tyr Ser Tyr Met Ala Tyr Leu  
           65                          70                          75                          80  
 Ser Ala Glu Leu Phe His Leu Ser Gly Ile Met Ala Leu Ile Ala Ser  
                           85                          90                          95  
 Gly Val Val Met Arg Pro Tyr Val Gly Xaa Gln His Phe His Lys Phe  
           100                          105                          110  
 Pro Gln Gln His Gln Ile Ile Ser Trp Lys Met Xaa Glu Gln Arg Xaa  
           115                          120                          125

Xaa

&lt;210&gt; 1211

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1211

Leu His Ala Phe Cys Xaa Ile Asn Asn Ile Lys Pro Ser Trp Thr Arg  
   1                          5                          10                          15

Xaa Asn Thr Leu Met Phe Ile His Leu Ser Pro Ile Leu Leu Ser  
           20                          25                          30

Leu Asn Pro Asp Ile Ile Thr Gly Phe Ser Ser  
           35                          40

<210> 1212  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1212  
Gln Gly Phe Lys Val Glu Arg Met His Ile Thr Asp Met Lys Leu Ala  
1 5 10 15

Xaa Leu Pro Xaa Leu Glu Ala Leu Gly Val Xaa Val Asn  
20 25

<210> 1213  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
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<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1213  
Ala Lys Val His Pro Asn Ser Val His Ile Cys Ala Val Val Val Glu  
1 5 10 15  
Tyr Glu Thr Lys Ala Gly Arg Ile Asn Lys Gly Val Xaa Thr Asn Trp  
20 25 30  
Leu Arg Ala Lys Glu Pro Ala Gly Glu Asn Gly Gly Arg Ala Leu Val  
35 40 45  
Pro Met Phe Val Arg Lys Ser Gln Phe Arg Leu Pro Phe Lys Ala Thr  
50 55 60  
Thr Pro Val Ile Met Xaa Gly Pro Gly Thr Gly Val Xaa Pro Phe Ile  
65 70 75 80  
Gly Xaa Ile Gln Glu Arg Ala Trp Leu Arg Gln Xaa Gly Lys Glu Val  
85 90 95  
Gly Glu Thr Leu Leu Asn Tyr Gly Cys Arg Arg Ser Asp Glu Asp Tyr

100	105	110
Leu Xaa Arg Xaa Glu Leu Ala Gln Phe His Arg Asp Gly Ala Leu Thr		
115	120	125
Gln Leu Asn Val Ala Phe Xaa Arg Xaa		
130	135	

<210> 1214  
<211> 207  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (158)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (165)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (168)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (170)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (187)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (196)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1214

Ala Ser Xaa His His Ser Ala Cys Phe Leu Gly Pro Glu Ile Met Pro  
1 5 10 15

Leu Gly Leu Leu Trp Leu Gly Leu Xaa Leu Leu Gly Ala Leu His Ala  
20 25 30

Gln Ala Gln Asp Ser Thr Ser Asp Leu Ile Pro Ala Pro Pro Leu Ser  
35 40 45

Lys Val Pro Leu Gln Xaa Asn Phe His Asp Asn Gln Phe His Gly Lys  
50 55 60

Trp Tyr Val Val Arg Leu Ala Arg Asn Ala Ile Leu Arg Xaa His Lys  
65 70 75 80

Asp Pro Gln Xaa Met Tyr Ala Thr Ile Tyr Glu Leu Lys Glu Thr Arg  
85 90 95

Xaa Thr Met Ser Leu Arg Leu Phe Lys Lys Lys Lys Cys Asp Tyr Leu  
100 105 110

Asp Gln Glu Phe Trp Ser Lys Val Ala Xaa Arg Arg Ile Pro Pro Trp  
115 120 125

Gly Pro Leu Lys Leu Pro Trp Xaa Asn Gln Phe Pro Pro Ser Asn Cys  
130 135 140

Xaa His Gln Leu Gln Xaa Pro Ser Phe Gly Phe Leu Pro Xaa Asn Phe  
145 150 155 160

Ser Lys Gln Gly Xaa Leu Pro Xaa Pro Xaa Phe Arg Lys Asn Lys Glu  
165 170 175

Leu Ile Pro Xaa Leu Lys Glu Lys Phe Ser Xaa Leu Pro Phe Leu Gly  
180 185 190

Pro Pro Lys Xaa Lys Phe Val Phe Pro Phe Pro Thr Asn Ile Xaa  
195 200 205

&lt;210&gt; 1215

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1215  
Gly Ser His Thr Ala Arg Arg Leu Gly Arg Leu Arg Gly Ser Xaa Ala  
1 5 10 15  
Arg Leu Xaa Gly Pro Arg Arg Ala Xaa Gly Gly Lys Met Ala Xaa Gly  
20 25 30

Gly Gly Asp Leu Ser Thr Arg Xaa Leu Asn Xaa Cys Ile Ser Pro Val  
35 40 45

Ala Asn Glu Met Asn His Leu Pro Ala His Xaa His Asp Leu Gln Arg  
50 55 60

Xaa Phe Thr Glu Xaa  
65

<210> 1216

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1216

Leu Asn Pro Leu Gly Ile Lys Tyr Ile Val Ala Arg Pro Val Tyr Ser  
1 5 10 15

Thr Asn Ala Phe Glu Glu Asn His Lys Lys Thr Gly Arg His His Lys  
20 25 30

Thr Phe Leu Asp His Leu Lys Val Cys Xaa Asn Cys Ser Pro Gln Lys  
35 40 45

Ala Arg Glu Leu Xaa Ser Leu Xaa Phe Pro  
50 55

<210> 1217

<211> 144

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1217

Ala Gly Leu Gln Met Gly Arg Ser Arg Ser Arg Ser Pro Arg Arg Glu  
1 5 10 15

Arg Arg Arg Ser Arg Ser Thr Ser Arg Glu Arg Glu Arg Arg Arg Arg  
20 25 30

Glu Arg Ser Arg Ser Arg Glu Arg Asp Arg Arg Arg Ser Arg Ser Arg  
35 40 45

Ser Pro His Arg Arg Arg Ser Arg Ser Pro Arg Arg His Arg Ser Thr  
50 55 60

Ser Pro Ser Pro Ser Arg Leu Lys Glu Arg Arg Asp Glu Glu Lys Lys  
65 70 75 80

Glu Thr Lys Glu Thr Lys Ser Lys Glu Arg Gln Ile Thr Glu Glu Asp  
85 90 95

Leu Glu Gly Lys Thr Glu Glu Glu Ile Glu Met Met Lys Leu Met Gly  
100 105 110

Phe Ala Ser Phe Asp Ser Thr Lys Gly Lys Lys Val Asp Xaa Ser Val  
115 120 125

Asn Ala Tyr Ala Ile Asn Val Ser Gln Lys Arg Lys Tyr Arg Tyr Ala  
130 135 140

&lt;210&gt; 1218

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1218

Gln Xaa Leu Cys Gln Ala Gly Asp Asp Ser Asn Ser Asn Lys Lys Asn  
1 5 10 15





Gly Glu Leu Arg Leu Val Ser Thr Cys Ile Cys Leu Ile Ser Val Val  
85 90 95

Gly Phe Pro Gly Ile Xaa Arg Met  
100

<210> 1220

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1220

Gly Thr Arg Xaa Cys Pro Xaa Arg Val Arg Val Ala Met Gly Xaa Ile  
1 5 10 15

Glu Trp Ala Xaa Trp Ala Asn Glu Gln Ala Leu Ala Ser Gly Leu Ile  
20 25 30

Leu Ile Thr Gly Gly Ile Val Ala Thr Ala Gly Arg Xaa Thr Xaa Trp  
35 40 45

Tyr Phe Gly Ala Xaa Ser Ile Val Ala Gly Val Phe Val Cys Leu Leu  
50 55 60

Glu Tyr Pro Arg Xaa Lys Arg Lys Lys Gly Ser Thr Met Val Arg Trp  
65 70 75 80

Gly Gln Lys Tyr Met Thr Xaa Xaa Val  
85

<210> 1221

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1221

Asp Thr Phe Ile Arg His Ile Ala Leu Leu Gly Phe Glu Lys Arg Phe  
1 5 10 15

Val Pro Ser Gln His Tyr Val His Val Pro Gly Glu Met Ala Gly Pro  
20 25 30

Val Gly Glu Gly Gly Leu Pro Ala Leu His Arg Asp Leu Arg Val Pro  
35 40 45

Ser Pro Lys Trp Phe Asp Gly Gln Arg Ala Ala Glu Asn His Gln Gly  
50 55 60

Thr Leu Thr Glu Tyr Cys Gly Thr Leu Met Ser Leu Pro Thr Lys Ile  
65 70 75 80

Ser Arg Cys Pro His Leu Leu Asp Phe Phe Lys Val Arg Pro Asp Asp  
85 90 95

Leu Lys Leu Pro Thr Asp Asn Gln Thr Lys Lys Pro Glu Thr Tyr Leu  
100 105 110

Met Pro Lys Asp Gly Lys Ser Thr Ala Thr Asp Ile Thr Gly Pro Ile  
115 120 125

Ile Leu Gln Thr Tyr Arg Ala Ile Ala Asn Tyr Glu Lys  
130 135 140

&lt;210&gt; 1222

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1222

Arg Cys Pro Val Thr Val Cys Gly Xaa Val His Gly Gln Phe His Asp  
1 5 10 15

Leu Met Glu Leu Phe Arg Ile Xaa Gly Lys Ser Pro Asp  
20 25

&lt;210&gt; 1223

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1223  
Leu Xaa Xaa Gln Ile Xaa Tyr Xaa Thr Xaa Pro Thr Ser Leu Pro Arg  
1 5 10 15

Thr Ser Xaa Cys Leu His Ala Xaa Thr Ser Trp Lys Gln Ser Leu Leu  
20 25 30

Gly Cys Leu Asn Xaa Lys Leu Xaa Xaa Ala Thr  
35 40

<210> 1224

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1224

Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser Phe Arg Arg  
1 5 10 15  
Asp Asn Asn Glu Leu Leu Phe Ile Leu Lys Gln Leu Val Ala Glu  
20 25 30  
Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln Asp Thr Ile  
35 40 45  
Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln Ile Asn Ile  
50 55 60  
His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg Met Asn Lys  
65 70 75 80  
Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln Phe  
85 90

<210> 1225

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1225

Gly Arg Pro Thr Arg Pro Pro Thr Leu Xaa Leu Ala Trp Thr Ser Gly  
1 5 10 15  
Thr Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro  
20 25 30  
Thr Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly Val  
35 40 45

Gly Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu Ser Gly  
50 55 60

Ser Gly Arg Trp Glu Glu His  
65 70

<210> 1226

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1226

Gly Lys Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp  
1 5 10 15

Ile Ser Gly Ala Tyr Gly Asp Ile Val Met Thr Gln Ser Pro Asp Ser  
20 25 30



Leu Leu Gln Arg Met Met Met Ala Gly Ser Val Arg Asn Gly Lys Pro  
85 90 95  
Arg Arg Thr Val Ile  
100

<210> 1228

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1228

Leu Ile Ser Gly Lys Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val  
1 5 10 15

Pro Asp Lys Leu Leu Xaa Ser Ser Thr Val Thr His Leu Phe Lys Xaa  
20 25 30

Xaa Gly Asn Ile Gly Cys Xaa Lys Thr Gly Met Ser Ala Xaa Ser Arg  
35 40 45

Ser Gln Val Gln Arg Ala Arg Tyr Xaa Ala Ala Asn Leu Glu Tyr Lys  
50 55 60

Tyr Gly Tyr Glu Xaa Pro Val Xaa Met Pro Val  
65 70 75

<210> 1229

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1229

Asn Thr Leu Ile Leu Xaa Pro Ser Lys Asn His Leu Lys Ala Ala Gly  
1 5 10 15

His Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Arg Asp Leu Met Gln  
20 25 30

Lys Ile Lys Gln Gln Lys Arg Lys Ser Tyr Phe Leu Lys Thr  
35 40 45

<210> 1230

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1230

Lys Thr Ile Arg Cys Val Cys Thr Trp Arg Leu His Leu Leu Ala Ser  
1 5 10 15

Thr Tyr Ala Cys Ser Gln Asn Thr Asn Lys Thr Cys Glu Glu Cys Leu  
20 25 30

Lys Asn Val Ser Cys Leu Trp Cys Asn Thr Asn Lys Leu Val Leu Asp  
35 40 45

Tyr Gln Xaa Gln Ser Leu Ala Thr Gly Phe Pro Leu Leu Ile Asn Xaa  
50 55 60

Leu His Leu Gly Asn Phe Val Gly Xaa Asn Leu Glu Ala Leu Asn His  
65 70 75 80

His Met Phe Gly Ser Pro Gly Asn Pro Pro Pro Gly Ala Leu Ala Ser  
85 90 95

Ala Ala Cys Leu Leu Ala Ala Arg Arg Lys Lys Glu Pro Glu Thr Arg  
100 105 110  
Thr Gly Ile Lys Glu Lys Arg Xaa Cys Val Xaa Pro Glu Arg Lys Ser  
115 120 125  
Xaa Ile Pro Ala Gly Xaa Thr Glu  
130 135

<210> 1231  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1231  
Leu Pro Xaa Gly Ala Gly Gly Met Ser Lys Gly Leu Pro Ala Arg Gln  
1 5 10 15  
Asp Met Glu Lys Glu Arg Glu Thr Leu Gln Ala Trp Lys Glu Arg Val  
20 25 30  
Gly Gln Glu Leu Asp Arg Val Val Ala Phe Trp Met Glu His Ser His  
35 40 45  
Asp Gln Glu His Gly Gly Phe Phe Thr Cys Leu Gly Arg Glu Gly Arg  
50 55 60  
Val Tyr Asp Asp Leu Lys Tyr Val Trp Leu Gln Gly Arg Gln Val Trp  
65 70 75 80

Met Tyr Cys Xaa Pro Val Pro His Phe Arg Ala Leu Xaa Pro Cys Ser  
                             85                            90                            95

Ala Ser Gly Arg Ser Xaa Ser Arg Trp  
                             100                            105

<210> 1232

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1232

Asn Ser Ala Arg Ala Glu Val Thr Asp Glu Tyr Lys Asn Xaa Val Lys  
   1                            5                            10                            15

Asn Arg Ser Val Tyr Ile Lys Gly Phe Pro Thr Asp Ala Thr Leu Asp  
                             20                            25                            30

Asp Ile Lys Glu Trp Leu Glu Asp Lys Gly Gln Val Leu Asn Ile Gln  
                             35                            40                            45

Met Arg Arg Thr Leu His Lys Ala Phe Lys Gly Ser Ile Phe Val Val  
                             50                            55                            60

Phe Asp Ser Ile Glu Ser Ala Lys Lys Phe Val Glu Ala Pro Gly Gln  
   65                            70                            75                            80

Lys Tyr Lys Glu Pro Asp Leu Leu Ile Leu Phe Lys Ala Gly Xaa Phe  
                             85                            90                            95

Ala Lys Lys

<210> 1233

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1233

Pro Phe Gly Thr Gly Pro Glu Phe Pro Gly Leu Pro Ser Ser Ser Phe  
1 5 10 15  
Leu Arg His Arg Gly Val Phe Leu Thr Pro Leu Leu Ala Met Ser Ser  
20 25 30  
His Lys Thr Phe Arg Ile Lys Arg Phe Leu Ala Lys Lys Gln Lys Gln  
35 40 45  
Asn Arg Pro Ile Pro Gln Trp Ile Arg Met Lys Thr Gly Asn Lys Ile  
50 55 60  
Arg Tyr Asn Ser Lys Arg Arg His Trp Arg Arg Thr Lys Leu Gly Leu  
65 70 75 80

<210> 1234

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1234

Val Thr Leu Xaa Lys Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg  
1 5 10 15  
Val Asp Pro Arg Val Arg Arg Pro Thr Arg Pro Pro Thr Arg Pro Pro  
20 25 30  
Thr Arg Pro Pro Thr Arg Pro Leu Cys Arg Lys Met Gly Val Pro Tyr  
35 40 45  
Cys Ile Ile Lys Gly Lys Ala Arg Leu Gly Arg Leu Val His Arg Lys  
50 55 60  
Thr Cys Thr Thr Val Ala Phe Thr Gln Val Asn Ser Glu Arg Gln Arg  
65 70 75 80  
Arg Phe Gly

&lt;210&gt; 1235

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1235

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu  
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ala Ala Thr Met  
20 25 30

Val Arg Met Asn Val Leu Ala Asp Ala Leu Lys Ser Ile Asn Asn Ala  
35 40 45

Glu Lys Arg Gly Lys Arg Gln Val Leu Ile Arg Pro Cys Ser Lys Val  
50 55 60

Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr Ile Gly Glu  
65 70 75 80

Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val Val Asn Leu  
85 90 95

Thr Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg Phe Asp Val  
100 105 110

Gln Leu Lys Asp Leu Glu Lys Trp Gln Asn Asn Leu Leu Pro Ser Arg  
115 120 125

Gln Phe Gly Phe Ile Val Leu Thr Thr Ser Ala Gly Ile Met Asp His  
130 135 140

Glu Glu Ala Arg Arg Lys His Thr Gly Gly Lys Ile Leu Gly Phe Phe  
145 150 155 160

Phe

&lt;210&gt; 1236

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1236

Leu Xaa Arg Ala Leu Phe Lys Arg Asn Pro Ala Asn Arg Leu Gly Ser  
1 5 10 15

Gly Pro Asp Gly Ala Glu Glu Ile Lys Arg His Val Phe Tyr Ser Thr  
20 25 30

Ile Asp Trp Asn Lys Leu Tyr Arg Arg Glu Xaa Thr Pro Pro Phe Lys  
35 40 45

Pro Ala Val Ala Gln Pro Asp Asp Thr Phe Tyr Phe Asp Thr Glu Phe  
50 55 60

Thr Ser Arg Thr Pro Lys Asp Ser Pro Gly Ile Pro Pro Ser Ala Gly  
65 70 75 80

Ala His Gln Leu Phe Arg Gly Phe Ser Phe Val Ala Thr Gly Leu Met  
85 90 95

Glu Asp Asp Gly Lys Pro Arg Ala Pro Xaa Ala Pro Leu His Ser Val  
100 105 110

Val Gln Gln Leu His Gly Lys Asn Leu Val Phe Ser Asp Gly Tyr Val  
115 120 125

Val Lys Glu Thr Ile Gly Val Gly Ser Xaa Ser Glu Cys Lys Arg Cys  
130 135 140

Val His Lys Gly Pro Xaa Xaa Xaa  
145 150

<210> 1237

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (43)

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<220>



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<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1237  
Arg Asp Thr Ser His Xaa Val Ala Gly Ala Leu Arg Pro Xaa Val Gln  
1 5 10 15  
Ala Thr Val Xaa Ala Thr Xaa Xaa Gln Pro Val Leu Asp Leu Lys Arg  
20 25 30  
Pro Phe Leu Ser Arg Glu Ser Leu Ser Gly Xaa Ala Cys Asp Arg Leu  
35 40 45  
Val Val Asp Ser Xaa Gly Ala Gln Xaa Pro Cys Phe Phe Leu Leu Ile  
50 55 60  
Pro Thr Gln Thr Ser Arg Xaa Leu Ile  
65 70

<210> 1238  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 1238  
Met Gly Phe Ser Leu Ile Pro Ser Ser Phe Ser His Leu Ala Asp Asn  
1 5 10 15  
Thr Thr Ser Leu Thr Asp Lys His Leu Asp Pro Ile Arg Glu Asn Leu  
20 25 30  
Gly Lys His Trp Glu Lys Leu Cys Pro  
35 40

<210> 1239  
<211> 42

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1239  
His Asp Ser Cys Lys Lys Xaa Thr Lys His Tyr Glu Met Leu Ala Asn  
1 5 10 15  
Arg Xaa Ala Ala Asn Gly His Cys Ile Asp Ile Tyr Xaa Cys Ala Pro  
20 25 30  
Asp Gln Thr Gly Leu Leu Xaa Leu Xaa Cys  
35 40

<210> 1240  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1240

Leu Glu Ser Leu Gln Glu Asn His Phe Gln Glu Asp Xaa Gln Phe Leu  
1 5 10 15

Gly Ala Val Met Pro Arg Leu Gly Ile Gly Met Asp Thr Cys Val Ile  
20 25 30

Pro Leu Lys His Gly Gly Leu Ser Leu Val Gln Thr Thr Asp Tyr Ile  
35 40 45

Tyr Pro Ile Val Asp Asp Pro Tyr Met Met Thr Pro Ala Val Ala Glu  
50 55 60

Xaa Arg Pro Val Pro Cys Pro His Leu Ala Leu Gly Ile Lys Gln Leu  
65 70 75 80

Gly Arg Lys Gln Glu Ser Pro Leu Leu Leu Gln Leu Asn Thr Cys  
85 90 95

Trp Xaa Asp Asn Met Cys Gln Cys Pro Gln  
100 105

<210> 1241

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1241

Ser Arg Pro Val Gly Ser Gly Cys Asp Asn Pro Ser Asn Val Glu Lys  
1 5 10 15

Pro Gly Ala Cys Leu Ala Leu Cys Leu Leu Pro Ser Gly Gly Thr Glu  
20 25 30

Ser Gln Asp Gln Ser Ser Leu Cys Lys Gln Pro Pro Ala Gly His Lys  
35 40 45

Arg Ser Arg Ser Met Leu Asn Ser Asn Gly Ser Val Thr Val Val Val  
50 55 60

Phe Phe Lys Pro Ala Asp Thr Cys His Thr Ala Gly Ile  
65 70 75

<210> 1242

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1242

Arg Leu Ala Ile Thr Gly Leu Thr Met Glu Arg Lys Val Leu Ala Leu  
1 5 10 15

Gln Ala Arg Lys Lys Arg Thr Lys Ala Lys Lys Asp Lys Ala Gln Arg  
20 25 30

Lys Ser Glu Thr Gln His Arg Gly Ser Ala Pro His Ser Glu Ser Asp  
35 40 45

Leu Pro Glu Gln Glu Glu Ile Leu Gly Ser Asp Asp Asp Glu Gln  
50 55 60

Glu Asp Pro Asn Asp Tyr Cys Lys Gly Gly Tyr His Leu Val Lys Ile  
65 70 75 80

Gly Asp Leu Phe Asn Gly Arg Tyr His Val Ile Arg Lys Leu Gly Trp  
85 90 95

Gly His Phe Ser Thr Val Xaa Val Ile Met Gly Tyr Ser Ser  
100 105 110

<210> 1243

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (86)  
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<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1243

Xaa Thr Ile Xaa Glu Glu Xaa Val Pro Leu Xaa Val Pro Val Arg Asn  
1 5 10 15

Ser Arg Val Asp Pro Arg Val Arg Tyr Asp Asn Leu Ile Thr Pro Ala  
20 25 30

Met Xaa Gly Ala Gly Xaa Leu Gln Gly Asn Val Asp Ser Cys Gln Gly  
35 40 45

Asp Xaa Gly Gly Pro Leu Val Thr Ser Lys Asn Asn Ile Trp Xaa Leu  
50 55 60

Ile Gly Asp Thr Ser Trp Gly Ser Gly Xaa Ala Lys Ala Tyr Arg Pro  
65 70 75 80

Gly Val Tyr Gly Asn Xaa Met Xaa Phe Thr Asp Trp Xaa Xaa Arg Gln  
85 90 95

Met Arg Ala Asp Gly  
100

<210> 1244

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1244

Gly Val Tyr Thr Met Ser Lys Ala His Pro Pro Glu Leu Lys Lys Phe  
1 5 10 15

Met Asp Lys Lys Leu Ser Leu Lys Leu Asn Gly Gly Arg His Val Gln  
20 25 30

Gly Ile Leu Arg Gly Phe Asp Pro Phe Met Asn Leu Val Ile Asp Glu  
35 40 45

Cys Val Glu Met Ala Thr Ser Gly Gln Gln Asn Asn Ile Gly Met Val  
50 55 60

Val Ile Arg Gly Asn Ser Ile Ile Met Leu Glu Ala Leu Glu Arg Val  
65 70 75 80

<210> 1245  
<211> 129  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1245

Phe Ile Met Asp Asn Leu Ser Ser Glu Glu Ile Gln Gln Arg Ala His  
1 5 10 15

Gln Ile Thr Asp Glu Ser Leu Glu Ser Thr Arg Arg Ile Leu Gly Leu  
20 25 30

Ala Ile Glu Ser Gln Asp Ala Gly Ile Lys Thr Ile Thr Met Leu Asp  
35 40 45

Glu Gln Lys Glu Gln Leu Asn Arg Ile Glu Glu Gly Leu Asp Gln Ile  
50 55 60

Asn Lys Asp Met Arg Glu Thr Glu Lys Thr Leu Thr Glu Leu Asn Lys  
65 70 75 80

Cys Cys Gly Leu Cys Val Cys Pro Cys Asn Arg Thr Lys Asn Phe Glu  
85 90 95

Ser Gly Lys Ala Tyr Lys Thr Thr Trp Gly Asp Gly Gly Glu Asn Ser  
100 105 110

Pro Cys Asn Val Val Ser Lys Gln Pro Gly Pro Val Thr Asn Gly Xaa  
115 120 125

Leu

<210> 1246  
<211> 136  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1246

Ser Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Tyr Gly Cys  
1 5 10 15

Glu Lys Thr Thr Glu Gly Gly Ser Met Ala Tyr Pro Gly His Pro Gly  
20 25 30

Ala Gly Gly Gly Tyr Tyr Pro Gly Gly Tyr Gly Gly Ala Pro Gly Gly  
35 40 45

Pro Ala Phe Pro Gly Gln Thr Gln Asp Pro Leu Tyr Gly Tyr Phe Ala  
50 55 60

Ala Val Ala Gly Gln Asp Gly Gln Ile Asp Ala Asp Glu Leu Gln Arg  
65 70 75 80

Cys Leu Thr Gln Ser Gly Ile Ala Gly Gly Tyr Lys Pro Phe Asn Leu  
85 90 95

Glu Thr Cys Arg Leu Met Val Ser Met Leu Asp Arg Asp Met Ser Gly  
100 105 110

Thr Met Gly Phe Asn Glu Phe Lys Glu Leu Trp Ala Val Leu Asn Gly  
115 120 125

Trp Arg Gln His Phe Xaa Asn Phe  
130 135

&lt;210&gt; 1247

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



<221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1247  
 His Ser Gly Gly Pro Xaa Arg Pro Ala Val Ala Asp Val Gly Leu Gly  
   1                  5                  10                  15  
 Gly Arg Ala Arg Arg Arg Xaa Pro Thr Gly Ala Ser Thr Trp Gly Thr  
                   20                  25                  30  
 Ser Xaa Arg Arg Ala Arg Glu Gly Thr Trp Xaa Asp Leu Phe Tyr Lys  
           35                  40                  45  
 Tyr Xaa Arg Ile Arg Glu Ile Glu Leu Lys Asn Arg Xaa Xaa Ser Ser  
   50                  55                  60  
 Cys Arg Pro Ser Cys Ala Ser Arg Asn Pro Arg Asp Ala Xaa Asp Ala  
   65                  70                  75                  80  
 Ile Tyr Xaa Lys Lys Trp Leu

85

<210> 1248  
<211> 112  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1248

Xaa	Ser	Xaa	Phe	Gly	Xaa	Pro	Ala	Arg	Arg	Ser	Gly	Pro	Glu	Leu	Pro
1				5					10					15	

Gly	Arg	Pro	Thr	Arg	Pro	Ala	Thr	Ile	Leu	Lys	Gln	Met	Gln	Val	Leu
		20						25					30		

His	Pro	Ala	Ala	Arg	Met	Leu	Xaa	Glu	Leu	Xaa	Lys	Ala	Gln	Asp	Ile
		35					40					45			

Glu	Ala	Gly	Asp	Gly	Thr	Thr	Ser	Xaa	Xaa	Ile	Ile	Ala	Gly	Ser	Leu
	50					55					60				

Leu	Asp	Ser	Xaa	Thr	Lys	Leu	Leu	Gln	Lys	Gly	Ile	His	Pro	Thr	Ile
65					70					75					80

Ile	Ser	Glu	Xaa	Phe	Gln	Lys	Ala	Leu	Glu	Lys	Gly	Ile	Glu	Xaa	Leu
			85						90					95	

Thr	Asp	Met	Xaa	Arg	Pro	Xaa	Glu	Leu	Xaa	Asp	Arg	Glu	Thr	Leu	Val
			100					105						110	

<210> 1249

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1249

Lys Phe Met Asn Ser Arg Val Phe Lys Lys Ile Gln Ala Leu Lys Ala  
1 5 10 15

Ser Pro Ser Lys Lys Arg Cys Asn Ser Ile Ala Ala Leu Lys Ala Thr  
20 25 30

Ser Gln Glu Ile Val Ser Ser Ile Ser Gln Glu Trp Lys Asp Glu Lys  
35 40 45

Arg Asp Leu Leu Thr Glu Gly Gln Ser Phe Ser Ser Leu Asp Glu Glu  
50 55 60

Ala Leu Gly Ser Arg His Arg Pro Asp Leu Val Pro Ser Thr Pro Ser  
65 70 75 80

Leu Phe Glu Ala Ala Ser Leu Ala Thr Thr Ile Ser Leu Leu Pro Ile  
85 90 95

Arg Gln Trp Ala Leu Ser Thr Arg Gln Gly Leu Gln Phe Xaa Gln Thr  
100 105 110

Arg

<210> 1250

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1250  
Gly Xaa His Val Phe Arg Asn Ile His Lys Thr Asn Leu Cys Asp Leu  
1 5 10 15  
Ile Thr Ser Leu Leu Cys Leu Xaa Val Leu Leu Pro Thr Lys Glu Leu  
20 25 30  
Asn Glu His Phe Xaa Ser Lys Leu Lys Ala Pro Ile Pro Ile Glu Leu  
35 40 45  
Val Val Val Val Xaa Ala Thr Leu Thr Ser His Phe Gly Lys Leu His  
50 55 60  
Glu Asn Tyr Asn Ser Ser Ile Ala Gly His Xaa Pro  
65 70 75

<210> 1251  
<211> 151  
<212> PRT  
<213> Homo sapiens

<400> 1251  
Leu Val Ser Asn Gly Pro Ala Asp Thr Leu Asp Leu Thr Tyr Trp Ile  
1 5 10 15  
Asp Gly Thr Arg His Val Val Ser Leu Glu Asp Val Gly Leu Ala Asp  
20 25 30  
Ser Gln Trp Lys Asn Val Thr Val Gln Val Ala Gly Glu Thr Tyr Ser  
35 40 45  
Leu His Val Gly Cys Asp Leu Ile Asp Ser Phe Ala Leu Asp Glu Pro  
50 55 60

Phe Tyr Glu His Leu Gln Ala Glu Lys Ser Arg Met Tyr Val Ala Lys  
65 70 75 80

Gly Ser Ala Arg Glu Ser His Phe Arg Gly Leu Leu Gln Asn Val His  
85 90 95

Leu Val Phe Glu Asn Ser Val Glu Asp Ile Leu Ser Lys Lys Gly Cys  
100 105 110

Gln Gln Gly Gln Gly Gly Arg Cys Val Val Lys Asn Ala Phe Tyr Ile  
115 120 125

Leu Ala Trp Met Asp Phe Tyr Cys Asp Met Val Tyr Val Cys Val Cys  
130 135 140

Met Cys Val His Ser Cys Leu  
145 150

<210> 1252

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1252

Lys Asn Gly Thr Ser Leu Cys Phe Ser Ser Ala Thr Met Ser Asp Lys  
1 5 10 15

Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys Leu Lys Lys  
20 25 30

Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu Thr Ile Glu  
35 40 45

Gln Glu Lys Gln Ala Gly Glu Ser  
50 55

<210> 1253

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1253

Ala Glu Gly Pro Xaa Ala Ala Ala Leu Leu Leu Ser Leu Leu Leu Phe  
1 5 10 15

Gly Phe Thr Leu Val Xaa Gly Thr Gly Ala Glu Lys Thr Gly Val Xaa  
20 25 30

Pro Glu Leu Gln Ala Ala Pro Ala Thr Xaa Xaa Xaa Xaa Cys Val Leu  
35 40 45

Xaa Asn Ser Glu Met Xaa Arg Thr Thr Ser Lys Xaa Leu Xaa Gly Gly  
50 55 60

Xaa Val Xaa Pro Ser Ala Ser Leu Pro Gln  
65 70

<210> 1254

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
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 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1254  
 Ser Pro Ala Arg Pro Leu Ile Arg Ser Asp Lys Met Lys Glu Thr Ile  
           1                  5                  10                  15  
 Met Asn Gln Glu Lys Leu Ala Lys Leu Gln Ala Gln Val Arg Ile Gly  
                   20                  25                  30  
 Gly Lys Gly Thr Ala Arg Arg Lys Lys Lys Val Val His Arg Thr Ala  
           35                  40                  45  
 Thr Ala Asp Asp Lys Lys Leu Gln Phe Ser Leu Lys Lys Leu Gly Val  
           50                  55                  60  
 Asn Asn Ile Ser Gly Ile Glu Glu Val Asn Met Phe Thr Asn Gln Gly  
           65                  70                  75                  80  
 Thr Val Ile His Phe Asn Asn Pro Lys Val Gln Ala Ser Xaa Ala Ala  
                   85                  90                  95  
 Asn Thr Phe Thr Ile Thr Gly His Ala Glu Thr Lys Xaa Leu Thr Xaa  
           100                  105                  110  
 Met Leu Pro Xaa Ile Leu Asn Gln Xaa Gly Ala Asp Xaa Leu Thr Lys  
           115                  120                  125  
 Phe

<210> 1255  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids  
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<221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (165)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (188)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1255  
 Xaa Thr Ser Leu Glu Thr Pro Val Pro Val Leu Asn Ser Arg Leu Asp  
     1                    5                    10                    15  
  
 Pro Arg Val Arg Met Thr Val Pro Gly Ala Ser Pro Glu Asp Xaa Trp  
             20                    25                    30  
  
 Val Lys Val Glu Tyr Ala Tyr Ser Asp Asn Ser Leu Asp Pro Gly Leu  
             35                    40                    45  
  
 Phe Val Glu Ser Thr Arg Lys Gly Ser Val Val Ser Arg Ala Asn Ser  
             50                    55                    60  
  
 Ile Gly Ser Thr Ser Ala Ser Ser Val Pro Asn Thr Asp Asp Glu Asp  
     65                    70                    75                    80  
  
 Ser Asp Tyr His Gln Glu Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg  
             85                    90                    95  
  
 Arg Arg Xaa Thr His Xaa Arg Leu Glu Gln Lys Arg Arg Asp Ala Ile  
             100                    105                    110

Lys Arg Gly Tyr Asp Asp Leu Gln Thr Ile Val Pro Thr Cys Gln Gln  
115 120 125

Gln Asp Phe Ser Ile Gly Ser Gln Lys Leu Ser Lys Ala Ile Val Tyr  
130 135 140

Lys Arg Pro Leu Thr Thr Phe Ser Phe Cys Thr Arg Arg Arg Lys Ser  
145 150 155 160

Arg Arg Arg Arg Xaa His Val Thr Gln Gly Cys Thr Gly Leu Lys Ile  
165 170 175

Met Lys Val Asn Tyr Glu Xaa Ile Val Lys Ala Xaa  
180 185

<210> 1256

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1256

Leu Pro Cys Val Lys Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg  
1 5 10 15

Xaa Arg Ala Arg Met Leu Asn Leu Leu Leu Xaa Ala Leu Ala Val Leu  
20 25 30

Ala Ser Arg Ala Tyr Ala Xaa Pro Ala Pro Gly Gln Ala Leu Gln Arg  
35 40 45

Val Gly Ile Val Gly Gly Xaa Glu Ala Pro Arg Ser Lys Trp Pro Trp  
50 55 60

Xaa Val  
65

<210> 1257

<211> 146

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1257

Gly Xaa Glu Gly Lys Xaa Phe Ser Val Ser Gly Xaa Trp Ser Ser Thr  
1 5 10 15  
Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn  
20 25 30  
Ser Ala Arg Ala Ala Gln Gln Arg Leu Thr Leu Cys Leu Arg Gly Arg  
35 40 45  
Glu Ser Pro Gly Gly Arg His Gly Gly Val Gly Glu Pro Ala Gln Glu  
50 55 60  
Asn Gly Val Gln Val Phe Asn Asp Gly Ser Ser Arg Glu Leu Met Asn  
65 70 75 80  
Leu Thr Gly Thr Ile Pro Val Pro Tyr Arg Gly Asn Thr Tyr Asn Ile  
85 90 95  
Pro Ile Cys Leu Trp Leu Leu Asp Thr Tyr Pro Tyr Asn Pro Pro Ile  
100 105 110  
Cys Phe Val Lys Pro Thr Ser Ser Met Thr Ile Lys Thr Gly Lys His  
115 120 125  
Val Asp Xaa Pro Lys Lys Xaa Gly Gly Xaa Lys Lys Gly Lys Ile Leu  
130 135 140  
Xaa Phe  
145

<210> 1258

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1258  
Xaa Ile Pro Pro Asp His Gln Thr Leu Ile Phe Ala Gly Lys His Leu  
1 5 10 15  
Glu Asn Gly Xaa Xaa Leu Ser Asp Tyr Xaa Xaa His Lys Glu Ser Xaa  
20 25 30  
Leu His Leu  
35

<210> 1259  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1259

Val Lys Val Cys Met Met Met Xaa Leu Leu Xaa His Arg Leu Leu Lys  
1 5 10 15

Trp Ser Trp Ile Val Arg Ser Lys Leu Leu Leu Gln Asp Pro Pro Val  
20 25 30

Thr Tyr Ile Gln Gln Phe Ala Asp Ala Ala Xaa Asn Leu Thr Ser Xaa  
35 40 45

Asp Ser Glu Lys Trp Asn Ser Val Phe Pro Lys Pro Gly Thr Leu Val  
50 55 60

Gln Val Leu Glu Ala Ala Lys Phe Ala  
65 70

&lt;210&gt; 1260

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1260  
Leu Cys Ser Thr Xaa Xaa Xaa Arg His Asn Ile Gln Lys Glu Leu Cys  
1 5 10 15  
Leu His Ala Ala Gln Gly Leu Ala Gln Leu Lys Ala Cys Thr Tyr Lys  
20 25 30  
Gly His Lys Thr Gly Xaa Thr Xaa Glu Xaa Ile Trp Glu Ile Gln Lys  
35 40 45  
Asp Gln Leu Xaa Tyr Tyr Pro Phe Leu Lys Met Cys Leu Ser Ala Asn  
50 55 60  
Xaa Glu His Xaa Ser Leu Val Asp Ala Thr His Xaa Asn His Ser Xaa  
65 70 75 80  
Asn Gly Tyr Leu Ala Lys Met Ile Lys Arg Ser Leu Lys Leu Thr  
85 90 95



<210> 1261  
<211> 94  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1261  
Phe Gly Thr Arg Lys Arg Met Glu Thr Lys Gly Ala Gly Val Thr Leu  
1 5 10 15  
Asn Val Leu Glu Met Thr Ser Glu Asp Leu Glu Asn Ala Leu Lys Ala  
20 25 30  
Val Ile Asn Asp Lys Ser Tyr Lys Glu Asn Ile Xaa Arg Leu Ser Ser  
35 40 45  
Leu His Lys Asp Arg Pro Val Glu Pro Leu Asp Leu Ala Val Phe Trp  
50 55 60  
Val Glu Phe Val Met Arg His Lys Gly Ala Pro His Leu Arg Pro Ala  
65 70 75 80  
Pro His Gly Pro His Xaa Val Pro Val Pro Xaa Pro Trp Pro  
85 90

<210> 1262  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 1262  
Gly Thr Gly Gln His Trp His Ser Gln Ala Val Gly Lys Gly Arg Asp

1                    5                    10                    15  
 Ala Glu Val Val Ser Ile Leu Thr Phe Arg Gly Leu Phe Leu Phe Val  
                   20                    25                    30  
 Leu Ile Phe Ala Arg Leu Ile Leu Lys Thr His Val Glu Glu Leu Lys  
                   35                    40                    45  
 Glu Cys Leu Glu Asp Gln Lys Ser Pro Met Thr Gly Thr Lys Ala Thr  
                   50                    55                    60  
 Asn Phe  
 65

&lt;210&gt; 1263

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1263

Asn Thr Met Ala Val Ala Ala Val Lys Trp Val Met Ser Lys Arg Thr  
 1                    5                    10                    15  
 Ile Leu Lys His Leu Phe Pro Val Gln Asn Gly Ala Leu Tyr Cys Val  
                   20                    25                    30  
 Cys His Lys Ser Thr Tyr Ser Pro Leu Pro Asp Asp Tyr Asn Cys Asn  
                   35                    40                    45  
 Val Glu Leu Ala Leu Thr Ser Asp Gly Arg Thr Ile Val Cys Tyr His  
                   50                    55                    60  
 Pro Ser Val Asp Ile Pro Tyr Glu His Thr Lys Pro Ile Pro Arg Xaa  
                   65                    70                    75                    80  
 Asp Pro Val His Asn Asn Glu Glu Thr His Asp Gln Val Leu Lys Thr  
                   85                    90                    95  
 Arg Leu Glu Glu Lys Val Glu His Leu Glu Glu Gly Pro Met Ile Glu  
                   100                    105                    110  
 Gln Leu Ser Lys Met Phe Leu Tyr Tyr  
                   115                    120

<210> 1264  
<211> 101  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1264  
Val Ala Ser Gly Val Gly Arg Val Thr Val Asn Ala Tyr Val Ser Leu  
1 5 10 15  
Phe Tyr Thr Ile Lys Arg Ala Gln Val Val Ser Pro Glu Arg Val Gly  
20 25 30  
Ser Trp His Ile Gly Arg Pro Ser Asp Pro Val Gln Cys Leu Leu Ala  
35 40 45  
Ile Leu Pro Glu Gln Ala Leu Lys Pro Lys Ser His Pro Arg Pro Val  
50 55 60  
Ser Ala Xaa Ala Lys Ala Ser Leu Ser Ser Gly Arg Arg Gly Lys Gly  
65 70 75 80  
Ala Gly Asp Gln Ala Leu Ala Leu Gly Pro Ser Phe Ser Pro His Xaa  
85 90 95  
Gly Asn Lys Xaa Xaa  
100

<210> 1265  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 1265  
Asp Leu Leu Met Lys Met Thr Ile Ser Cys Cys Phe Tyr Pro Thr Ser  
1 5 10 15  
Ala Phe Ser Pro Phe Lys Ala Ala Val Ser Cys Leu Ile Lys Glu Tyr  
20 25 30  
Trp Pro Val Leu Gln Ile Leu Thr Gly Phe Gly  
35 40

<210> 1266  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1266  
Gly Ser Trp Pro Gly Ala Xaa Gly Xaa Arg Asp Gly Ser His Gly Xaa  
1 5 10 15  
Arg Leu Xaa Ala His Gly Pro Ile Asn Leu Glu Arg Ile  
20 25

<210> 1267  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1267

Xaa Pro Xaa Phe Xaa Gln Glu Leu Ile Gln Asn Phe Pro Asp Lys Xaa  
1 5 10 15  
Asn Leu Xaa Leu Val Phe Leu Leu Phe Phe Val Leu Val Asn Leu Gly  
20 25 30  
Ser Asn Val Ile Arg Asn Ser Leu Trp Xaa Xaa Ala Thr Asp Ala Gln  
35 40 45  
Pro Val Xaa Val Asp Tyr Ser Ser Ser Asn Xaa  
50 55

<210> 1268

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1268

Val Phe Lys Lys Asn Met Ser Cys Xaa Leu Ser Lys Asn Lys Met His  
1 5 10 15  
Leu Asn Ser Lys Lys Lys Lys Lys Lys Lys Xaa Gly Gly Gly Arg  
20 25 30

Gly Lys Lys Lys Xaa Glu Xaa Glu Xaa Leu Lys Lys Gly Arg Gly Ala  
35 40 45

Pro

<210> 1269

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1269

Pro Thr Leu Pro Glu Glu Asn Ser Val Phe Phe Thr Phe His Thr Val  
1 5 10 15

Phe Pro Met Arg Glu Gly Ala Gln Pro Glu Ser Thr Thr Ile Met Val  
20 25 30

Lys Phe Pro Thr Glu Ser Ser Cys Glu Trp Ile Ile Arg Lys Asn Glu  
35 40 45

Glu Ser Lys Arg Gln Lys Ser Lys Asn Arg Trp Gly Leu  
50 55 60

<210> 1270

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1270

Asn Ile Asn Lys Asp His Leu Met His Ala Phe Lys Lys Lys Lys Lys  
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Xaa Xaa  
20 25

<210> 1271

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1271

Gly Pro Lys Glu Glu Leu Arg Gly Gly Gly Gly Asp Met Ala Asp Leu  
1 5 10 15

Pro Arg Arg Val Thr Arg Pro Leu Met Met Gly Leu Gln Gly Ser Ser



20 25 30  
Gly Leu Xaa Ala Xaa Thr Val Gln Arg Lys Arg Ala Gly Ile Val Thr  
35 40 45  
Gly Ser Asp Gly Xaa His Arg Ser Glu Arg Glu Xaa Ala Gly Thr Gly  
50 55 60  
Ile Val Thr Val Thr Val Thr Ala Ser Thr Asn Gly Gly Ser Gly Ala  
65 70 75 80  
Xaa Xaa Arg Gly Arg Asp Glu Ala Arg Ser Trp Gly Arg Trp Pro Gly  
85 90 95  
Gln Arg Val Gly Arg Phe Gly Gln Arg Gln Pro Arg Ile Leu Xaa Glu  
100 105 110

Phe

<210> 1272

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1272  
Gly Lys Ser Asn Val Leu Trp Xaa Gln Arg Arg Gly Arg Xaa Gln His  
1 5 10 15  
Leu Ala Trp Xaa Ser Gln Gly Thr Gln Xaa Arg Ser Pro Pro Gly His  
20 25 30  
Asn Thr Xaa Lys Ala Ser Tyr Ser Gly Val Glu Ser Phe Gln Gln Pro  
35 40 45  
Gly Pro Val Leu Gly Xaa Tyr Ser His Pro Pro Tyr Arg Cys Val Tyr  
50 55 60  
Val Thr Leu Cys His Xaa Xaa Ser Xaa Thr Ile Xaa Asn Ser Gln Glu  
65 70 75 80  
Ser Pro His Phe Tyr Asn Leu  
85

<210> 1273  
<211> 115  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1273

His Lys Ala Pro Leu Glu His Leu Pro Gly Trp Gln Asp His Ala Ile  
1 5 10 15

Ser Val Glu Lys Val Leu Gly Arg Glu Val Leu Pro Val Pro His Gly  
20 25 30

Val Arg Pro Cys Pro Cys Trp Gly Leu Trp Gly Gly Ile Trp Tyr Ser  
35 40 45

Gly Gly Leu Ala Gln Leu Ser Leu Arg Ser Phe Pro Ile Arg Met Leu  
50 55 60

Val Asn Ile Leu Arg Ser Ser Leu Phe Ser Asn Lys Glu Tyr Ser Phe  
65 70 75 80

Asn Ser Cys Ser Ser Ser Gln Phe Thr Thr Pro Ile Cys Leu Ser Lys  
85 90 95

Ile His Pro Asn Gly Ile Xaa Gly Xaa Gly Pro Pro Trp Ile Gln Ser  
100 105 110

Val Ser Trp  
115

&lt;210&gt; 1274

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1274

Glu Leu Val Ser Ser Phe Phe Phe Phe Phe Phe Leu Phe Phe Gly Ser  
1 5 10 15

Phe Lys Gly Asn Gly Pro Ser Met Ser Ile Phe Asn Ile Leu His Ser  
20 25 30

Leu Phe Leu Trp Cys

35

<210> 1275  
<211> 107  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1275

Asp Cys Gly Thr Leu Ile Ile Tyr His Ala Gly Ser Pro Gln Lys Pro  
1 5 10 15

Cys Ala His Glu Pro Leu Trp Ala Xaa Gly Glu Lys Arg Gly Leu Arg  
20 25 30

Glu Leu Pro Glu Arg Ala Val Ser Trp Glu Gln Gly Asp Ile Ser Ser  
35 40 45

Pro Xaa Thr Arg Asn Met Thr Gln Xaa Xaa Gly Asn Lys Lys Pro Ser  
50 55 60

Pro Xaa Xaa Xaa Gly Gly Ala Arg Pro Leu Lys Ser Thr Met Xaa Ala  
65 70 75 80

Gly Gly Ile Xaa Val Lys Xaa Ser Gly Phe Xaa Lys Asp His Ile Phe  
85 90 95

Phe Ser Gln Phe Xaa Xaa Pro Xaa Phe Xaa Cys  
100 105

<210> 1276

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1276  
Ile Asn Lys Ile Cys Xaa Asn Leu Tyr Pro Leu Leu Trp His Phe Xaa  
1 5 10 15  
Xaa Ile Ile Xaa Ala Arg Lys Met Xaa Xaa Asn Xaa Gly Pro Gly Xaa  
20 25 30  
Glu Gly Lys Glu Pro Phe Leu Val Ala Gly Asn Cys Val Gly Lys Glu  
35 40 45  
Val Gln Ile Cys Ala Tyr Glu Ile Ser Arg Asn Arg Trp Asn Xaa Thr  
50 55 60  
Pro Met Gln Leu Leu Leu Xaa Xaa Lys Gln Gly Ala Trp Ser Asn Gly  
65 70 75 80  
Xaa Thr Leu Cys Leu  
85

<210> 1277  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1277

Trp	Val	Tyr	Thr	Val	Val	Arg	Gln	Val	Ser	Phe	Thr	Leu	Leu	Met	Met
1				5					10					15	

Cys	Cys	Cys	His	Gly	Asn	Pro	Ala	Gln	Tyr	Glu	Arg	Asn	Arg	Arg	Phe
			20					25					30		

Xaa	His	Leu	Val	Tyr	Val	Leu	Gly
		35				40	

&lt;210&gt; 1278

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1278

Asn Tyr His Ser Gly Gly Pro Xaa Lys Thr Pro Ala Gly Asp His Leu  
1 5 10 15

Ala Xaa Trp Leu Lys Pro Pro Val Ser Ile Ser Lys Phe Xaa Pro Lys  
20 25 30

Glu Gly Val Gly Xaa Lys Ile Trp Gly Asn Leu Ser Pro Phe Xaa Phe  
35 40 45

Phe Pro Gly Thr Pro Pro Leu Xaa Gly Glu Thr Leu Ala Arg Gly Xaa  
50 55 60

Xaa

65

&lt;210&gt; 1279

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1279

Val Ile Ala Asp Cys Ile Ala Leu Phe Leu Xaa Arg Leu Ser Ile Leu  
1 5 10 15

Ile Gln Lys Val Ser Ile Phe Xaa Asn His Glu Ile  
20 25

&lt;210&gt; 1280

&lt;211&gt; 22

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1280

Tyr	Glu	Gly	His	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
1				5				10					15	

Phe Xaa Pro Pro Pro Xaa

20

<210> 1281

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1281

Xaa Xaa Leu Lys Asp Thr Cys Leu Lys Ala Glu Met Glu Ala Xaa Cys  
1 5 10 15

Xaa Arg Arg Ile Leu Cys Xaa Asn Leu Ala Met Cys Phe Pro Cys Xaa  
20 25 30

Trp Ala Asp Glu Cys Leu Leu Asn Asp Glu Ile Leu Thr Ser Lys Gly  
35 40 45

Gly

<210> 1282

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1282

His Glu Pro Ala Ser Leu Ser Pro Ala Ala Trp Ala Arg Lys Val Cys  
1 5 10 15

Gly Ser Phe Ser Gly Ser Asp Phe Xaa Thr Glu Leu His Arg Pro Thr  
20 25 30

Xaa Leu Ser Pro Xaa Gly Leu Gln Gly Pro Gly Ser Arg Pro Lys Pro  
35 40 45

Xaa Lys Ser Lys Thr Ser Leu Glu Lys Phe Arg Asp Arg Pro Gly Glu  
50 55 60

Met Gly Xaa Arg Tyr Gly Val Ser His Leu Thr Pro Glu Asp Ala Xaa  
65 70 75 80

Phe Ser Leu Gln Gly Ala  
85

<210> 1283

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1283

Thr Pro Leu Ser Gln Asn Pro Ala Gln Ala Glu Arg Tyr Gly Ser Ala  
1 5 10 15

Ala Glu Pro Arg Leu Ala Ser Asp Ser Arg Ser Pro Ala Cys Pro Arg  
20 25 30

Arg Arg Ala Ala Pro Pro Ser Thr Arg Pro Ala Arg Ala Gly Gly Arg  
35 40 45

Val Pro Arg Arg Ala Pro Gly Pro Gly Ser Gly Ala Glu Cys Pro Ser

50                      55                      60  
 Ser Trp Glu Thr Gly Pro Gly Trp Lys Gly Gly Arg Leu Glu Asp Pro  
 65                                  70                                  75                                  80  
 Ser Leu Arg Thr Arg Ala Cys Xaa Ala Ile Xaa  
                                 85                                  90

<210> 1284

<211> 61

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1284

Xaa Glu Xaa Ala Gly Lys Ala Ser Thr Pro Ala Gly Thr Gly Pro Glu  
 1                                  5                                  10                                  15

Phe Pro Gly Leu Pro Thr Phe Pro His Arg Cys Ser Tyr Xaa Tyr Met  
                                 20                                  25                                  30

Gln Asn Ile Cys Gln Ala Leu Cys Gln Leu Ser Cys Thr Tyr Gly Ile  
                                 35                                  40                                  45

Glu Thr Met Glu Leu Gly Thr Ser Trp Ile Phe Phe Leu  
                                 50                                  55                                  60

<210> 1285

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1285

Leu Thr Lys Ser Phe Lys Ile Phe Cys Asp Asn Val Leu Ile Glu Ala  
1 5 10 15  
Tyr Ile Ile Leu Gln Phe Leu Glu Ser Lys Met Met Tyr Pro Leu Arg  
20 25 30  
Ile Tyr Thr Ser Cys Phe Ile Gly Leu Arg Gly Leu Ile Phe Ile Arg  
35 40 45  
Arg Asp Leu Leu Val Phe Thr Ile Cys Pro Leu Ser Trp His Val  
50 55 60

&lt;210&gt; 1286

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1286

Ser Leu Tyr Pro Ile His Met Leu Phe Lys Asn Xaa Ala Ile Thr Lys  
1 5 10 15  
Lys Gln Ile Met Val Phe Phe Arg Asn Leu Ile Xaa Val Tyr Ser Thr  
20 25 30  
Lys Tyr Phe  
35

&lt;210&gt; 1287

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (54)  
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<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1287  
Xaa Glu Gly Val Gly Phe Xaa Xaa Val Asp Gly Gly Gly Glu Gly Arg  
1 5 10 15  
Pro Pro Glu Leu Xaa Leu Met Gln Ser Phe Leu Ala Met Xaa Asn Leu  
20 25 30  
Ser Val Ile Val Leu Ile Ile Lys Phe Xaa Val Phe Lys Lys Xaa Xaa  
35 40 45  
Xaa Leu Ser Xaa Leu Xaa Phe Xaa Thr Pro Trp Lys Val Pro Xaa Gly  
50 55 60  
Gly Gly Ala Gln Ser Xaa Trp Phe Ser  
65 70

<210> 1288  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids  
  
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<220>  
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<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (69)  
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<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1288  
Gly Gln Met Leu Ile Phe Cys Leu Gln Lys Lys Leu Gly Phe Pro Lys  
1 5 10 15  
Gln Phe Tyr Tyr Pro Val His Asn Ser Phe Thr Gln Xaa Ser Ser His  
20 25 30  
Gly Ile His Gly Ser Xaa Ser Phe Xaa Leu Pro Asp Gly Arg Asn Lys  
35 40 45  
Ile Ile His Phe Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60  
Lys Arg Xaa Ala Xaa Xaa Glu Asp Pro Ser Xaa Arg Xaa  
65 70 75

<210> 1289  
<211> 27  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1289  
Ala Arg Thr Ala Xaa Ala Xaa Glu Gly Val Arg Xaa Trp Asp Leu Thr  
1 5 10 15  
Val Gly Pro Ile Ser Leu Phe Ser Ala Leu Leu  
20 25

<210> 1290  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 1290  
Asn Ser Ala Arg Ala His Leu His Leu Pro His Ser Pro Pro Leu Leu  
1 5 10 15  
Val Pro Asp Thr Ser Thr Pro Thr Trp Ser Ser Pro Ile Ala His Lys  
20 25 30  
Arg Gly Gly Thr Arg Asp Glu Leu Ser  
35 40

<210> 1291  
<211> 93  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1291

Ser Arg Arg Pro Gly Pro Arg Gly Leu Val Xaa Ala Ser Gly Arg Gly  
1 5 10 15

Pro Gly Ser Ser Gln Ser Phe Pro Ser Pro Asn Asp Val Ala Phe Phe  
20 25 30

Val Val Cys Phe Arg Xaa Leu Lys Gln Pro Arg Arg Arg Leu Tyr Trp  
35 40 45

Leu Ser Ala Leu Ala Thr Ala Val Val Met Val Thr Gly Pro Asn Ser  
50 55 60

Arg Trp Pro Lys Pro Thr Cys His Arg Ala Gly Ser Leu Val Gly Arg  
65 70 75 80

Xaa Gln Ala Arg Gly Xaa Ala Xaa Ala Glu His Ser Phe  
85 90

<210> 1292

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1292

Gln Ala Ala Glu Pro Lys Glu Phe Ala Pro Arg Cys Gly Pro Thr Trp  
1 5 10 15

Leu Gly Pro Cys Pro Gly Arg Val Ile Leu Cys Ser Glu Ala Ile Ser  
20 25 30

Gly Thr Gly Pro Pro Arg Pro Thr Pro Pro Glu His Gly Ser Arg Leu  
35 40 45

Pro Gln Pro Ser Trp Leu Arg Arg Leu Ser Glu Pro Arg Gly Gly Leu  
50 55 60

Glu Gly Arg Phe Val Cys Arg Asp Gly Ala Arg Ala Gln Val Leu Asp  
65 70 75 80

Val Val Cys Ile Glu Arg Pro Lys Ala Gly Gly Lys Cys Thr Gly His  
85 90 95

Lys Arg Ser Leu Ser Cys Asp Ala Gln Val Leu Arg Ser Gly Arg Xaa  
100 105 110

Pro Ala Gly Ser Gly His Xaa Trp Val His Arg Gly Ala Phe Gln Thr  
115 120 125

Asn Met

130

&lt;210&gt; 1293

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1293

Trp	Phe	Pro	His	Ser	Arg	Cys	Phe	Xaa	Ile	Arg	Ile	Arg	Val	Leu	Leu
1				5					10				15		

Glu	Arg	Xaa	Ser	Cys	Ser	Xaa	Tyr	Arg	Ile	Val	Val	Val	Xaa	Phe	
			20					25					30		

<210> 1294

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1294

Gly	Gly	Xaa	Val	Pro	Asn	Cys	Pro	Tyr	Ser	Glu	Cys	Val	Leu	Gln	Leu
1				5				10					15		

Thr Gly Xaa Trp Xaa Tyr Xaa Val Val Asp Trp Glu Lys Xaa Trp Gly

20 25 30

Tyr Pro Thr  
35

<210> 1295  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1295  
Phe Gln Phe Ala Asn Arg Thr Asn Thr Gly Glu Asn Leu Pro Lys Thr  
1 5 10 15  
Leu Val Ile Lys Tyr Ile Ser Ser Thr Phe Arg Ser Phe Phe Phe Trp  
20 25 30  
Asp Ser Val Ser Asn Lys Xaa Ile Lys Ile Lys Xaa Gly Xaa His Phe  
35 40 45

Ala Val Ala Ala Val Gln Arg Thr Leu Leu Asn Leu Tyr Val Arg His  
50 55 60

Ser Met Leu Tyr Trp Gly Asn Leu Gly Arg Ser Xaa Val Phe Xaa Ile  
65 70 75 80

His Ile Xaa Ile

<210> 1296

<211> 35

<212> PRT

<213> Homo sapiens

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<400> 1296

Ser Xaa Asn Val Val Xaa Leu Pro Phe Val Lys Ala Pro Lys Xaa Arg  
1 5 10 15

Asn Pro Asn Leu Thr Cys Asn Thr Xaa Leu Thr Gln Asn Gly Ser Tyr  
20 25 30

Ile Xaa Leu  
35

<210> 1297  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1297

Gly Val Leu Ala Arg Ala Xaa Xaa Xaa Pro Gly Ala Ala Asp Gly Arg  
1 5 10 15

Ala Arg Leu Cys Gly Pro Glu Val Gly Ala Xaa Xaa Ala Lys Val Ala  
20 25 30

Gly Ala Ala Glu Pro Asp Glu Asp Gly Gly Arg Ser Gly Phe Gly Thr  
35 40 45

Ala Glu Thr Thr His Arg Ala Ser Ala Trp Ala Arg Arg Ser Asp Ala  
50 55 60

Val Val Pro Gly Arg His Ser Gly Arg His Arg Asp Gly Gln Lys Xaa  
65 70 75 80

Arg Arg Val Phe Val Val Phe Val Ala Val Met Met Asn Xaa Leu His  
85 90 95

Xaa Trp Leu Gln Val Xaa  
100

<210> 1298

<211> S1

<212> PRT

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1298

Cys Lys Gln Tyr Leu Thr Asn Pro Gln Val Leu Asn Tyr Gln Thr Cys  
1 5 10 15

Ile Lys Asn Phe Gly Trp Gly Asp Leu Gly Ala Glu Pro Ser Leu Arg

20 25 30  
Xaa Xaa His Ala Xaa Thr Ser Pro Val Lys Ala Asn Tyr Tyr Thr Arg  
35 40 45  
Leu Ile Gln  
50

<210> 1299  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1299

Arg Thr Xaa Gln Gly Glu Gly Gln Arg Arg Arg Pro Cys Lys Ser Xaa  
1 5 10 15

Val Lys Lys Lys Lys Xaa Xaa Xaa Pro Xaa Tyr Arg Leu Glu Glu Val  
20 25 30

Lys Asp Lys Asp Gly Lys Pro Leu Leu Xaa Lys Glu Ser Xaa Gly Thr  
35 40 45

Ala Ser Thr His Gly Val Glu Asp Phe Leu Leu Gly Trp Leu Cys Val  
50 55 60

<210> 1300

<211> 58

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<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1300

Lys Met Lys Leu Cys Arg Lys Cys Ser Pro Gln His Asp Xaa Glu Arg  
1 5 10 15

Asn Ser Gly Thr Arg Phe Phe Pro Val Pro Leu Phe Ser Gln Gly Ser  
20 25 30

Ala Gly Ile Gln Gly Gln Arg Ile Ser Leu Pro Glu Cys Ala Lys Xaa  
35 40 45

Xaa Glu Lys Gly Asn Cys Leu Ser Leu Xaa  
50 55

<210> 1301

<211> 37

<212> PRT

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<400> 1301

Thr Leu Val Gln Xaa Val Val Ser Gly Ala Ser Val Xaa Gly Lys Ser  
1 5 10 15

Pro Pro Tyr Xaa Lys Trp Asn Ser Pro Glu Pro Val Cys Glu Arg Xaa  
20 25 30

Thr Gly Val Xaa Ser  
35

<210> 1302  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 1302  
Gln Glu Glu Ala Leu His Ile Leu Gly Phe Gln Pro Pro Phe Glu Asp  
1 5 10 15  
Ile Arg Phe Gly Pro Phe Thr Gly Asn Thr Thr Leu Met Arg Trp Phe  
20 25 30  
Arg Gln Ile Asn Asp His Phe His Val Lys Gly Cys Ser Tyr Val Leu  
35 40 45  
Tyr Lys Pro His Gly Lys Asn Lys Thr Ala Gly Glu Thr Ala Ser Gly  
50 55 60  
Ala Leu Ser Lys Leu Thr Arg Gly Ile Glu Arg  
65 70 75

<210> 1303  
<211> 26  
<212> PRT  
<213> Homo sapiens

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Ala Xaa Xaa His His Pro Trp Xaa Xaa Leu Xaa Trp Glu Arg Phe Arg  
1 5 10 15  
Cys Asn Ile Asn Cys Asp Glu Asp Pro Lys  
20 25

<210> 1304  
<211> 46  
<212> PRT  
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<400> 1304

Gly	Arg	Val	Lys	Xaa	Phe	Xaa	Gly	Ala	Pro	Gly	Asn	Xaa	Ala	Asp	Xaa
1				5					10					15	

Xaa	Xaa	Phe	Arg	Thr	Gln	Met	Met	Asp	Leu	Glu	Leu	Ala	Met	Xaa	Arg
			20					25						30	

Gln	Asn	His	Gly	Leu	Ser	Ser	Tyr	Asp	Xaa	Gly	Gly	Xaa	Val
		35					40					45	

<210> 1305

<211> 70

<212> PRT

<213> Homo sapiens

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<400> 1305  
Lys Ser Glu Gly Xaa Met Phe Cys Glu Thr Phe Ile Phe Leu Lys Glu  
1 5 10 15



Lys Xaa Lys Gly Arg Pro Ile Ser Ser Gln Asp His Thr His Xaa Xaa  
20 25 30  
Gly Xaa Gly His Xaa Xaa Ser Met Ala Xaa Phe Val Lys Phe Gly Cys  
35 40 45  
Phe Xaa Asn Xaa Xaa Leu Xaa Lys Trp Met Trp Pro Lys Thr Phe Xaa  
50 55 60  
Leu Gly Trp Xaa Gly Lys  
65 70

<210> 1306

<211> 45

<212> PRT

<213> Homo sapiens

<220>

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<220>

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Xaa Leu Thr Val Lys Asp Ala Gly Gly Gln Xaa Ile Pro Gly Val Pro  
1 5 10 15  
Glu Xaa Ser Cys His Val Gly Val Lys Ala Glu Gly Ala Xaa Xaa Thr  
20 25 30  
Gln Xaa Asp Arg Gly Ala Arg Xaa Xaa Ser Gln Ala Phe  
35 40 45

<210> 1307  
<211> 38  
<212> PRT  
<213> Homo sapiens

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<400> 1307  
Gln Ser Thr Arg Ala Glu Tyr Glu Ser Lys Ala Glu Gly Val Met Xaa  
1 5 10 15  
Gly Gln Ala Phe Arg Lys Phe Gln Gln Gly Ala Ala Gly Asn Met Lys  
20 25 30  
Gly Met Met Gly Ile Gln  
35

<210> 1308  
<211> 59  
<212> PRT  
<213> Homo sapiens

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1308

Xaa Val Ser Xaa Phe Arg Lys Pro Leu Xaa Cys Ala Asn His Ser Arg  
1 5 10 15

Lys Xaa Asn Leu Tyr Leu Gly Tyr Asn Thr Thr Val Ser Tyr Val Thr  
20 25 30

Xaa Ala Xaa Xaa Xaa Pro Leu Cys Xaa Xaa Xaa Xaa Ala Lys Xaa Xaa  
35 40 45

Xaa Arg Lys Lys Gly Lys Arg Lys Thr Asn Xaa  
50 55

<210> 1309

<211> 30

<212> PRT

<213> Homo sapiens

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<400> 1309  
Gly Thr Arg Ser Leu Glu His Ala Ala Gly Leu Xaa Gly Leu Ser Gln  
1 5 10 15  
Val Cys Xaa Pro Arg Arg Xaa Ser Ala Arg Pro Val Gln Pro  
20 25 30

<210> 1310  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1310  
Ser Tyr Asn His Gly Thr Lys Asn Phe Ile Glu Ile Phe Lys His Leu  
1 5 10 15  
Ile Lys Leu Lys Leu Leu Phe Gln Met Phe Lys Phe Tyr His Pro Phe  
20 25 30  
Phe Ser His Glu Phe Leu Lys Asp Tyr Ala Leu Met Leu Xaa Ser Ile  
35 40 45  
Leu Leu Phe Leu Lys Ile Pro Gly Ile Phe Trp Tyr His Val Gln Pro  
50 55 60  
Thr Ser Leu  
65

<210> 1311  
<211> 99  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1311

Ser	Pro	Ser	Leu	Trp	Val	Val	Pro	Trp	Arg	Gly	Trp	Ser	Ser	Ser	Ser
1				5					10					15	

Ser	Ser	Pro	Thr	Ser	Ser	Ala	Gly	Arg	Gly	Val	Thr	Gln	Ala	Thr	Arg
		20						25					30		

Leu	Ser	Ser	Leu	Val	His	Ala	Gly	Thr	Ala	Ala	Ala	Gly	Ala	Ser	Val
		35						40					45		

Pro	Phe	Ser	Gly	Leu	Arg	Val	Leu	Ser	Lys	Gly	Gly	His	Thr	Phe	Trp
	50					55						60			

Gln	Thr	Phe	Leu	Lys	Xaa	Gly	Ser	Ser	Asn	Val	Lys	Phe	His	Leu	Gly
65					70					75					80

Xaa	His	Leu	Thr	Met	His	Asn	Arg	Leu	Ile	Xaa	Glu	Met	Asp	Gly	Val
				85					90					95	

Xaa Phe Gly

&lt;210&gt; 1312

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

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<400> 1312  
Gly Ile Xaa Val Gln Glu Gly Arg Gly Leu Ala Val Ala Glu Xaa His  
1 5 10 15  
Lys Lys Val Thr Arg Pro Gly Ala Ala Asp Xaa Ala Arg Arg Pro His  
20 25 30

Leu Tyr

<210> 1313  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
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<400> 1313  
Thr Val Val Arg Gln Val Ser Phe Thr Leu Leu Met Met Cys Cys Cys  
1 5 10 15  
His Gly Asn Pro Ala Gln Tyr Glu Arg Xaa Arg Ser Ser Asp Ile Gly  
20 25 30  
Val Cys Ala Gly Leu Arg Ser Gln Trp Gly Glu Thr Thr His Leu Trp  
35 40 45

Gly Xaa  
50

<210> 1314  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 1314  
Thr Val Val Arg Gln Val Ser Phe Thr Leu Leu Met Met Cys Cys Cys  
1 5 10 15  
His Gly Asn Pro Ala Gln Tyr Glu Arg Asn Arg Ser Ser Asp Ile Trp  
20 25 30  
Cys Met Cys Leu Ala Glu Glu Pro Met Gly Arg Thr Thr Ile Cys Gly  
35 40 45  
Ile Met Thr Glu Arg Leu  
50

<210> 1315  
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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1315

Thr Ala Gly Arg Trp Pro Trp Lys Ser Glu Ser Ala Lys Glu Cys Val  
1 5 10 15

Thr Thr His Leu Pro Asn Gln Leu Ala Leu Lys Met Asp Gly Ala Gly  
20 25 30

Ala Ser Gly Pro Tyr Pro Ala Val Ala Gly Ser Arg Glu Trp Thr Gly  
35 40 45

Ala Ala Gly Ala Ala Arg Ala Arg Ala Val Leu Val Phe Ala Xaa Phe  
50 55 60

Pro Val Gly Lys Arg Pro Asn Pro Leu Pro Xaa Trp Phe Leu Xaa Pro  
65 70 75 80

Gln Xaa Xaa Thr

<210> 1316

<211> 68

<212> PRT

<213> Homo sapiens

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<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1316

Lys Ser Thr Ser Thr Gln Gly Trp Ser Ala Gln Trp Xaa Thr Glu His  
1 5 10 15

Gly Leu Leu Xaa Ser Leu Gln Tyr Phe Glu Phe Ile Phe Leu Pro Ile  
20 25 30

Tyr Val Leu Tyr Ala Ala Gly Ala Pro Leu Lys Phe Tyr Ser Val Leu  
35 40 45

Gln Lys Lys Lys Lys Lys Lys Lys Arg Gly Ala Pro Xaa Lys Gly  
50 55 60

Pro Xaa Phe Xaa  
65

<210> 1317

<211> 51

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1317  
Ile Xaa Xaa Pro Xaa Gly Gly Pro Lys Pro Pro Pro Phe Xaa Lys Xaa  
1 5 10 15  
Phe Ser Pro Pro Pro Pro Arg Asn Pro Pro Xaa Phe Phe Ser Pro  
20 25 30  
Pro Pro Xaa Asp Pro Xaa Pro Xaa Lys Lys Phe Phe Phe Phe Leu Lys  
35 40 45  
Thr Pro Pro  
50

<210> 1318  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1318  
Asp Phe Asn Leu His Gln Pro Leu Lys Cys Arg Pro Leu Cys Asp Trp  
1 5 10 15  
Xaa Tyr Ala Leu Leu Lys Cys His Lys Ala Ala Ser His Leu Trp Gly  
20 25 30  
Tyr Cys Tyr Lys Phe Phe Leu Ser Leu Lys Xaa Pro Phe Leu Leu Ser  
35 40 45  
Ser Val Gly Lys Phe Xaa Gln Ile Ser Ser Ser Xaa Pro Gly Arg Asn  
50 55 60  
His Ser Pro Gln Gly Asn Leu Pro Xaa Leu Phe Leu Gly Cys  
65 70 75

<210> 1319  
<211> 28  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1319

His Leu Asp Val Pro Ser Cys Leu Leu Lys Lys Lys Lys Thr Arg  
1 5 10 15

Xaa Gly Ala Arg Tyr Pro Xaa Pro Pro Asn Ser Xaa  
20 25

<210> 1320

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1320

Gly Lys His Gly Lys Gly Ser Gly Lys Trp Ala Cys Xaa Xaa Leu Gly  
1 5 10 15

Arg Xaa Xaa Leu Xaa Pro Ala Leu Met Val Thr  
20 25

<210> 1321

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1321

Gln Ser Pro Ile His Phe Ser Cys Thr Arg Met Leu Trp Lys Ser Leu  
1 5 10 15

Met Thr Arg Thr Val Phe Ser Leu His Cys Leu Ala Leu Gly Phe Glu  
20 25 30

Lys Lys Ile Arg Glu Gly Arg Ser Gly Ile Ser Trp Pro Lys Phe Pro  
35 40 45

Leu Gly Arg Thr Gly Arg Cys Cys Ser Ser Lys Arg Glu Gly Phe Phe  
50 55 60

Gln Ser His Leu Pro Glu Ser  
65 70

<210> 1322

<211> 80

<212> PRT

<213> Homo sapiens

<220>

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<222> (32)

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<220>

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1322  
Gly Gly Ser Thr Ser Ser Leu Lys Ile Leu Glu Gly Met Glu Glu Ser  
1 5 10 15  
Gln His Val Phe Leu Thr Gln Asp Pro Trp Phe Val Leu Lys Ala Xaa  
20 25 30  
Asn Pro Gln Val Pro Ala Phe Asp Asp Val Tyr Arg Lys Cys Trp Leu  
35 40 45  
Thr Glu His Ile Cys Pro Ile Pro Gly Val Xaa Arg Lys Pro Xaa Ile  
50 55 60  
Phe Xaa Ile Pro Asn Phe Phe Leu Xaa Xaa Lys Lys Lys Met Xaa Xaa  
65 70 75 80

<210> 1323  
<211> 57  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1323  
Gln Gly Leu Asn Pro Tyr Thr Phe Trp His Asn Xaa Ile Xaa Leu Gly  
1 5 10 15  
Asn Glu Leu Cys Lys Gly Glu Pro Lys Leu Lys Thr Pro Xaa Asn Gln  
20 25 30  
Thr Glu Leu Thr Leu Arg Asn Ser Leu Lys Glu Ala His Pro Ser Tyr  
35 40 45  
Val Gly Lys Ile Val Gly Lys Val Phe  
50 55

<210> 1324  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1324  
Lys Arg Lys Leu Arg Glu Gly Arg Asn Leu Asn Xaa Leu Met Lys Ile  
1 5 10 15  
Met Leu Xaa Ile Ile Lys Thr Gly Tyr Glu Tyr Ser Asn Pro Phe  
20 25 30

<210> 1325  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>



<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1325

Leu Glu Ile Thr Leu Gln Gly Glu Pro Lys Leu Arg Pro Pro Lys Pro  
1 5 10 15

Asp Glu Leu Pro Lys Lys Gln Leu Lys Glu His Thr Arg Leu Cys Xaa  
20 25 30

Lys Ile Val Gly Arg Phe Ile Gly  
35 40

<210> 1326

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1326

Ala Tyr Lys Lys Glu Lys Glu Gln Ser Gln Glu Arg Thr Xaa Xaa Lys  
1 5 10 15

Cys Phe Gly Thr Ser Leu Phe Leu Asp Phe Glu Leu Ser Asn Trp Phe

20 25 30  
Ser Gln Val Lys Leu Lys Asn Ser Glu Thr Trp Phe Tyr Glu Ser Cys  
35 40 45  
Ser Tyr Thr Phe Leu Xaa Xaa Gly Pro Xaa Leu Leu Pro Arg Leu Leu  
50 55 60  
Thr  
65

<210> 1327  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1327

Trp	Glu	Lys	Phe	Ile	Gly	Xaa	Lys	Arg	Gln	Thr	Tyr	Glu	Pro	Gly	Asp
1				5					10					15	

Thr	Gly	Cys	Ser	Gln	Asn	Xaa	Ile	Leu	Val	Ser	Leu	Leu	Ile	Leu	Ala
			20					25					30		

Xaa	Glu	Pro	Pro	Xaa	Xaa	Pro	Trp	Leu	Ile	Tyr	Xaa	Leu	Val	Pro	Xaa
		35					40					45			

<210> 1328

<211> 72

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1328  
Leu Asp Gln Lys Lys Ser Xaa Leu Phe Asp Leu Xaa Arg Xaa Asn Leu  
1 5 10 15  
Pro Xaa Leu Tyr Thr His Val Cys Val Ser Leu Lys Arg Xaa Val Arg  
20 25 30  
Leu Xaa Lys Ile Leu Ile Val Ile Asn His Val Xaa Thr Ser Cys Asn  
35 40 45  
Glu Leu His Asp Leu Ile Leu Ser Leu Leu Ala Xaa Thr Thr Xaa Tyr  
50 55 60  
Phe Ser Asn Xaa Xaa Ile Ser Pro  
65 70

<210> 1329  
<211> 19  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1329  
Thr Ile Xaa Cys Glu Leu Leu Lys Trp Ile Ile Gly His Gly Leu Xaa  
1 5 10 15  
Ala Ala Xaa

<210> 1330  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1330  
Pro Leu Tyr Leu Leu His Asn Glu Leu Thr Arg Asn Asn Phe Ala Arg  
1 5 10 15  
Arg Ala Lys Ala Lys Thr Pro Glu Xaa Arg Xaa Ala Thr Leu Glu Gln  
20 25 30  
Leu Lys Glu His Thr Arg Leu Cys Xaa Lys Ile Val Gly Xaa Ile Tyr  
35 40 45  
Xaa Leu Lys Arg Gln Thr Tyr Arg Pro Gly Asp Thr Gly Xaa Pro Xaa  
50 55 60  
Xaa Ile Leu Xaa His Phe Asn Leu Pro Xaa Asn Leu Leu Ile Pro Cys  
65 70 75 80

<210> 1331  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1331  
Ile Ile Asn Asn Asn Lys Asn Lys Ala Asn Thr Leu Asp Ile Thr Leu  
1 5 10 15  
Pro Ser Gly Ala Xaa Lys Lys Val Lys Ala Gly Ile Ser Phe Ser Tyr  
20 25 30  
Leu Asn Leu Ser Val Leu Ser Gln Gly Ile Phe Ser Glu Asn Arg Trp  
35 40 45  
Asn Xaa Val Arg Leu Trp Xaa Met Leu Ser Ile Ile Gly  
50 55 60

<210> 1332  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>



<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1332

Lys Val Xaa Gly Leu Xaa Ser Pro Gly Pro Glu Ile Pro Gly Ser Thr  
1 5 10 15

Xaa Thr Val Arg Ile Asn Thr Val Xaa Pro Leu Ile Tyr Leu Leu Leu  
20 25 30

Ser Pro Ile Xaa Asn Thr His Ala Ala Xaa Leu Ser Val Asp Gly Gly  
35 40 45

Tyr His Leu Asp Pro Leu Leu Leu Glu Xaa Pro Xaa Xaa Leu Trp  
50 55 60

Ala Leu Xaa Arg Lys Ser Arg Ile Ile Trp Lys Thr Leu Xaa Phe Ser  
65 70 75 80

Ser Arg Leu Tyr Gln Lys Ile Pro Lys Thr Asp Xaa Ala Val Xaa Xaa  
85 90 95

Gln

<210> 1333

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

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<220>

<221> SITE

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<220>

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1333

Xaa Phe Leu Pro Pro Ser Ala Arg Pro Arg Ala Gly Arg Arg Xaa Pro  
1 5 10 15

Leu Arg Gly Gln Cys Gln Val Gly Ser Leu Thr Gly Ala Val His Leu  
20 25 30

Ser Asn Gly Asn Ala Xaa Val Leu Arg Xaa Ala Gln Gly Gly Gln Lys  
35 40 45

Pro Pro Val Glu Xaa Lys Gly Lys Ser Ser Leu Asp Leu Asp Phe Gln  
50 55 60

Tyr Glu Tyr Lys Thr Val Lys Ala Gly Pro His Asp Pro Ser Asp Leu  
65 70 75 80

Leu Gly Phe Lys Gln Glu Val Xaa Glu Lys Leu Pro Gln Gly  
85 90

<210> 1334

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1334

Thr Cys Gly Pro Val Lys Tyr His Xaa Ser Asp Arg Phe Phe Thr  
1 5 10 15

Asp Pro Val Arg Arg Gly Gly Glu Pro Arg Gly Ala Leu Ala Ser Gly  
20 25 30

Ala Lys Arg Pro Ala Ala Arg Arg Pro Gly Ala Thr Arg Ser Gly Asp  
35 40 45

Xaa Ala Arg Xaa Gly Xaa Xaa  
50 55

<210> 1335

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1335  
Xaa Thr Ile Val Leu Xaa Xaa Thr Pro Ala Gly Thr Gly Pro Glu Phe  
1 5 10 15  
Pro Gly Arg Pro Thr Arg Pro Pro Ile Phe Pro Val Asp Asn Ala Ile  
20 25 30  
Asp Asn Gly Xaa Glu Xaa Gln Val Ala Leu Pro Ile Leu Met Ala Ala  
35 40 45  
Tyr Ala Met Ala Glu Ala Phe Met Ser Thr Gly Val Gly Ala Ser Leu  
50 55 60  
Ile Leu Ile Ala Leu Lys Val Gly Ile Thr Ala Lys Thr Val Ala Val  
65 70 75 80  
Ile Gly Ala Ile Val Thr Ser Ile Leu Ser Ile Ala Thr Gly Thr Ser  
85 90 95  
Trp Gly Thr Phe Ala Ala Cys Ala Pro Ile Phe Leu Trp Leu Asn His  
100 105 110  
Ile Val Gly Gly Asn Ile Leu Phe Asp Asn Lys Gln Leu Leu Xaa Xaa  
115 120 125  
Glu His Val Leu Glu Asp Asn Ile Gly Leu Phe Gln Ile Leu Gln  
130 135 140

<210> 1336  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1336  
Xaa Ala Leu Gly Leu Ala Leu Pro Gly Arg Leu Leu Xaa Ser His Ser  
1 5 10 15  
Arg Arg Thr Pro Ser Arg Glu Ser Arg Xaa Pro Pro Ala Pro Leu Tyr  
20 25 30  
Ser Ala Arg Ala Gln His Gly Ala Pro Ala Gly Xaa His Val Arg Ala  
35 40 45  
Ser Asp Cys Arg Gly Asp Xaa Asp Phe Xaa Arg Ser Ser Gly Arg Met  
50 55 60  
Glu  
65

<210> 1337  
<211> 42  
<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

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<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1337

Thr Xaa Ala His Ser Val Xaa Xaa Pro His Ser Xaa Gly His Cys Gly  
1 5 10 15

Gln Arg Val Leu Ala Cys Xaa Leu Leu Ser Ile Leu Lys Ala Met Asp  
20 25 30

Phe Xaa Gly Pro Phe Ser Ser Xaa Leu Pro  
35 40

<210> 1338

<211> 35

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1338  
Phe Asn Lys Leu Ser Ser Ala Leu Ser Glu Phe Ser Gly Pro Asn Ile  
1 5 10 15  
Tyr Val Glu Lys Asp Gly Gly Val Xaa His Leu Cys Thr Asp His Leu  
20 25 30  
Tyr Val Arg  
35

<210> 1339  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
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<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1339

Asp Ile Glu Ala Lys Pro Ser His Tyr Gln Leu Val Ser Gly Ser Ser  
1 5 10 15  
Thr Glu Asp Ser Leu His Val His Ala Gln Met Ala Glu Asn Glu Xaa  
20 25 30  
Xaa Gly Ser Gly Gly Gly Gly Ser Glu Glu Asp Pro Pro Cys Xaa His  
35 40 45  
Gln Ser Cys Glu Gln Lys Asp Cys Leu Ala Xaa Lys Pro Trp Asp Ile  
50 55 60  
Ser Leu Ala Xaa Pro Glu Ser Ile Arg Ser Asp Leu Glu Ser Ser  
65 70 75

&lt;210&gt; 1340

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1340

Gly Lys Gly Thr Phe Pro Lys Asn Xaa Phe Trp Gly Asn Lys Asn Val  
1 5 10 15



Asp Cys Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Gly Gly Pro Phe  
 50 55 60

Xaa Lys Xaa Lys Xaa  
 65

<210> 1341

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1341

Xaa Trp Ser Xaa Leu Ala Ala Gln Lys Glu Gln Ser Gly Leu Glu Gly  
 1 5 10 15

Ser Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu  
 20 25 30

Lys Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg  
 35 40 45

Leu Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Xaa  
 50 55 60

Ser Arg Gln Xaa Ser Gly  
65 70

<210> 1342

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1342

Glu Pro Asp Pro Asn Ser Glu Asn Ile Ala Ala Ile Ser Gln Ser Ser  
1 5 10 15

Val Gly Ser Asp Leu Phe Val Phe Lys Pro Ser Glu Pro Arg Pro Leu  
20 25 30

Tyr Ile Gln Lys Gly Ile Ser Arg Glu Lys Val Gln Trp Gly Val Phe  
35 40 45

Val Pro Arg Asp Val Pro Glu Ser Phe Thr Ser Glu Ala Tyr Gln Trp  
50 55 60

Leu Asn Arg Ser Gln Phe Tyr Phe Leu Thr Lys Ser Gln Ser Leu Leu  
65 70 75 80

Thr Phe Ser Thr Lys Ser Pro Glu Glu Lys Leu Thr Pro Thr Xaa Gln  
85 90 95

Thr Ala Ala Ser Arg Arg Lys Ser Ser His Asn Pro Ile Leu Phe His  
100 105 110

Ile Gly Lys Thr Gln Ala Thr Ala Gly  
115 120

<210> 1343

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1343

Asn Thr Lys Gly Asp Arg Glu Glu Leu Lys Asp Leu Gln Tyr Cys Thr  
1 5 10 15

Gln Lys Leu Ile Ile Leu Cys Thr Phe Tyr Leu Phe Trp Arg Phe Tyr  
20 25 30

Met Ile Phe Asn  
35

<210> 1344

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1344

Ala Val Ala Val Ser Gly Pro Gly Pro Val Gly Val Leu Leu Xaa Leu  
1 5 10 15

Trp Leu Thr Pro Xaa Pro Gly Thr Leu Asn Asp Arg Ser Arg Xaa Xaa  
20 25 30

<210> 1345

<211> 63

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1345  
His Leu Val Lys Ala Gly Arg Lys Ile Asn Asn Thr Lys Leu Cys Tyr  
1 5 10 15  
Leu Ile Xaa Leu Leu Glu Arg Val Arg Phe Thr Xaa Tyr Ile Phe Lys  
20 25 30  
Leu Ile His Val Lys Asn Asp Ser Asp Phe Asp Val Ile Xaa Leu Leu  
35 40 45  
Ile Glu Ser Xaa Ile Xaa Lys Ala Asn Asn Leu Lys Xaa Ala Ile  
50 55 60

<210> 1346  
<211> 64  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1346  
Ala Gly Ala Asp Arg Gly Gly Gly Gly Trp Xaa Arg Leu Gly Xaa Ile  
1 5 10 15  
Asn Leu Leu Ile Asp Cys Asp Ser Lys Lys Lys Lys Lys Lys Lys Lys  
20 25 30  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45  
Lys Xaa Lys Xaa Lys Lys Lys Lys Xaa Lys Lys Lys Lys Lys Xaa Xaa  
50 55 60

<210> 1347  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1347  
Phe Leu Ile Met Ser Asn Asp Cys Lys Ser Ala Trp Ile Phe Thr Cys  
1 5 10 15  
Lys Gly Tyr Ser Cys Ile Val Arg Ser Pro Ser Pro Ala Glu Ser Ser  
20 25 30  
Xaa His Trp Leu Ala Val Cys Cys Val Xaa His Ser Phe  
35 40 45

<210> 1348  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1348  
Gly Phe Leu Val Leu Met Leu Val Lys Val Cys Ala Gly Ile Ser Lys  
1 5 10 15  
Ser Leu Lys Lys Val Phe Thr Gly His Trp Ala Val Val Arg Glu Gly  
20 25 30  
Leu Thr Asn Pro Trp Ile Pro Asp Asn Trp Ser Trp Gly Gly Val Ala  
35 40 45  
Ser Glu His Cys Xaa Cys Tyr Arg Val Leu His  
50 55

<210> 1349  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 1349  
Phe Cys Pro Cys Val Arg Gln Ser Glu Gln Arg Val Ile Gln Ser Ala  
1 5 10 15  
Ala Asn Lys Ala Ala Asp Ser Ser Val Gln Lys Ala Lys Lys Glu Leu  
20 25 30  
Tyr Val Arg His Leu Phe Leu Leu Ile Ser Ile Phe Leu Leu Thr His  
35 40 45  
Thr Leu Ser His Val Lys Arg Lys Ile Asn Lys Trp Ser Glu Leu  
50 55 60

<210> 1350  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1350  
Tyr Ile Tyr Tyr Arg Pro Asn Glu Leu Asn Ile Ala Leu Leu Tyr Ser  
1 5 10 15  
Pro Lys Gly Leu Asn Ser Cys Phe Phe Pro Ser Phe Ile Xaa Arg Lys  
20 25 30  
His Tyr Asp Arg Ile Ser  
35

<210> 1351  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1351

Leu Leu Pro Glu Asp Gln Val Gln Leu Gln Pro Xaa Gly Arg Trp Leu  
1 5 10 15

Pro Thr Ser Ser Pro Gly Leu Ser Ser Ser Pro Ser Ser Pro Val Ile  
20 25 30

Leu Cys Cys Leu Asp Ser Thr Ile Pro Ser Leu Phe Leu Leu His Leu  
35 40 45

Leu Pro Leu Glu Pro Pro Leu Pro Ser Trp Asp Phe Trp Glu Val Pro  
50 55 60

Ala Xaa Gln Pro Arg His Lys Thr Ile Met Val Thr Trp  
65 70 75

<210> 1352

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1352

Xaa Leu Leu Arg Asp Xaa Met Gly His Tyr Val Trp Leu Phe Tyr Ile  
1 5 10 15

Lys Pro Thr Thr Xaa Phe Arg Val Gly Xaa Met Asn  
20 25

&lt;210&gt; 1353

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1353

Pro Arg Leu Gln Thr Leu Asn Leu Val Leu Xaa Ser Ala Asp Asn Gly  
1 5 10 15

Xaa Xaa Pro Arg Leu Tyr Asn Arg Arg Ser Ala Lys Asp Xaa Gly Val  
20 25 30

Leu Gly Gly Xaa Leu Val Phe Pro Lys Val Phe Gln Ile Lys Val Val  
35 40 45

Phe Val Leu Lys Lys Lys Lys Lys Lys Leu Gly Gly Xaa Phe Leu  
50 55 60

Gly Gly Ala Arg Gly Xaa His Gly Phe Xaa Gln Xaa Gly Xaa Gly  
65 70 75

<210> 1354

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1354  
Gly Asp Pro Ala Gln Phe Pro Gly Arg Pro Arg Val Arg Thr Ile Gly  
1 5 10 15  
Arg Arg Ser Phe Xaa Xaa Trp Xaa Asn Ser His Phe Pro His Glu Glu  
20 25 30  
Xaa Lys Xaa Gly Gln Lys Pro Asn  
35 40

<210> 1355  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1355  
Asp Ile Asn Gly Asp Phe Lys Val Glu Ile Asn Met Tyr Ser Met Phe  
1 5 10 15  
Leu Lys Lys Lys Lys Lys Lys Xaa Pro Gly Gly Ala Pro Val Pro  
20 25 30  
Ile Xaa Pro Xaa Gly Gly Pro Phe  
35 40

<210> 1356  
<211> 81  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1356  
Pro Gly Glu Ala Gly Gly Arg Ala Pro Arg Gly Ser Arg Phe Trp Arg  
1 5 10 15  
Gln Xaa Pro Gly Arg Ala Pro Ala Gly Arg Asp Pro Leu Arg Gly Gln  
20 25 30  
Cys Gln Val Gly Ser Leu Thr Gly Ala Val His Leu Ser Asn Gly Asn  
35 40 45  
Ala Gly Val Leu Arg Arg Ala Gln Gly Gly Gln Lys Pro Pro Val Glu  
50 55 60  
Gln Lys Gly Lys Ser Ser Leu Asp Leu Asp Phe Gln Tyr Glu Tyr Arg  
65 70 75 80  
Pro

<210> 1357  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1357  
Thr Pro Leu Ser Gln Asn Pro Ala Gln Ala Glu Arg Tyr Gly Ser Ala

1                      5                      10                      15  
Ala Glu Pro Arg Leu Ala Ser Asp Ser Arg Ser Pro Ala Cys Pro Arg  
                    20                      25                      30  
Arg Arg Ala Ala Pro Xaa Ser Thr Arg Xaa Ala Arg Ala Gly Gly Arg  
                    35                      40                      45  
Val Pro Arg Arg Ala Pro Gly Pro Gly Ser Gly Ala Glu Cys Pro Ser  
                    50                      55                      60  
Ser Trp Glu Thr Gly Arg Gly Arg Lys  
65                      70

<210> 1358

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1358  
Gly Xaa Arg Pro Arg Xaa Trp Ile Arg Thr Ser Arg Trp Cys Ser Arg  
1 5 10 15  
Tyr Lys Xaa Phe Val Cys Ser Thr Ile Lys Val Leu Arg Asp Leu Asn  
20 25 30  
Ser Xaa Arg Ser Asn Pro Gly Arg Phe Leu Ser Thr Ser Asn Ser Ser  
35 40 45  
Leu Tyr Xaa Arg Thr Xaa Arg Tyr Lys Ala Tyr Phe Ser Xaa Arg Leu  
50 55 60  
Pro Pro  
65

<210> 1359  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1359  
Arg Pro Lys Trp Arg Arg Val Pro Cys Glu Gln Gln Leu Asn Met Gly  
1 5 10 15  
Gln Ser Val Leu Arg Asp Gly Arg Ala Pro Phe Arg Arg Asp Gly Arg  
20 25 30  
Trp Pro Pro Leu Pro Ser Ala Asp Arg Lys Gly Val Gly Phe Arg Ser

35

40

45

Pro Asn Pro Glu Trp Arg Arg Trp Arg Arg Glu Ala Ser Xaa Arg Xaa  
 50 55 60

Arg Asp Arg Ser Arg Arg Ser Pro Xaa  
 65 70

&lt;210&gt; 1360

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1360

Thr Arg Pro Val Asn Asn Lys Lys Gly Val Ile Arg Ile Gly Met Trp  
 1 5 10 15

Ile Phe Thr Val Xaa Thr Thr His Leu Gln Phe Cys Asn Ala Arg Met  
 20 25 30

Gln Phe Lys Asn Val Lys  
 35

&lt;210&gt; 1361

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1361

Arg Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala  
 1 5 10 15

Ser Ala Asp Ala Trp Gly Leu Leu Arg Asn Ile Ala Glu Val Ile Thr  
 20 25 30

Thr Ala Ile Lys Leu Phe Lys Lys Asp Leu Tyr Asn Val Tyr Lys Ser  
 35 40 45

Gly Ile Lys Asp Phe Ser  
 50

<210> 1362  
<211> 139  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1362  
Ser Phe Asp Val Gly Ser Ser Tyr His Cys Glu Ala Glu Phe Thr Lys  
1 5 10 15

Arg Trp Ile Val His Pro His Glu Pro Cys Ala Phe Gly Val Asn Asn



20                      25                      30  
 Val Gln Phe Val Asp Val Ile Glu Ser Arg Gly Leu Ser Pro Phe Tyr  
           35                      40                      45  
 Ile Cys Ile Asn Phe Asn Leu Leu Lys Xaa Lys Lys Glu Xaa Glu Lys  
           50                      55                      60  
 Gln Phe Ile Lys Xaa Xaa Lys Ser Asn Gln Pro Gln Gln Gln Lys Arg  
           65                      70                      75                      80  
 Met Val Trp Tyr Trp Arg Arg Asp Gly Gln Leu Ser Leu Leu Ala His  
                   85                      90                      95  
 Asp Gly Met Asp Leu Gly Pro Gly Thr Thr Phe Ile Leu Arg Xaa Xaa  
                   100                      105                      110  
 Leu Trp Ile Pro Arg Glu Gly Gln Pro Phe Arg Xaa Gly Leu Tyr Pro  
                   115                      120                      125  
 Glu Gly Gly Thr Glu Phe Gly Gln Thr Xaa His  
                   130                      135

&lt;210&gt; 1363

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1363

Ala Phe Arg Lys Tyr Tyr Val Lys Asn Leu Xaa Ser Leu His Ala Arg  
           1                      5                      10                      15

His Ser Phe Asn His Phe Ser Asp His Phe Ser Lys Ile Leu Lys His  
                   20                      25                      30

Pro His Leu Gly Phe Ser Leu Asn Leu Gly Val Pro Ser Pro His Pro  
                   35                      40                      45

Ala Ala Phe Cys Val Arg Gly Xaa Arg Ser

50

55

<210> 1364  
<211> 21  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1364  
Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa  
1 5 10 15

Arg Xaa Xaa Glu Asn  
20

<210> 1365  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365  
Tyr Thr Ala Ile Met Ser Ile Met Ser Tyr Asn Xaa Gly Ala Val Met  
1 5 10 15  
Ala Met Lys Gly Xaa Xaa Xaa Xaa Xaa Xaa His Arg Cys Arg Xaa Ala  
20 25 30  
Leu Xaa Glu Ser Arg Pro Arg Met Val Asn His Gly Thr Xaa Arg Lys  
35 40 45  
Ile Phe Xaa His Gly Xaa Asn Arg Leu Xaa Met Gly Leu Gly Arg Xaa  
50 55 60  
Xaa Gln Leu Arg Xaa  
65

<210> 1366  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1366

Leu Ala Ile Leu Arg Leu Phe Lys Val Phe Ser Asn Ile Lys Lys Tyr  
1 5 10 15

His Gln Arg Ser Pro Ala Met Leu Lys Thr Asn Asn Xaa Lys Gln Thr  
20 25 30

Xaa Xaa Lys Asn Leu Lys Lys Lys Xaa Gly  
35 40

<210> 1367

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1367

Ser Thr Leu Ser Asn Arg Leu Val Trp Val His Trp His Ser Leu Xaa  
1 5 10 15

Tyr Cys Leu Ile Ala Asp Thr Xaa  
20

<210> 1368

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1368  
Xaa His Xaa Trp Lys Leu Ile Leu Xaa Leu Xaa Leu Gly Tyr Phe Xaa  
1 5 10 15  
Phe Gly Gly Glu Ser Ala Xaa Phe Phe Arg Arg Gly Pro Gly Phe Phe  
20 25 30  
Lys Gly Lys Lys His Ser Tyr Ser Lys Leu Gln Asn Asn Gly Val Asn

35 40 45  
Met Leu Asn Arg Ser Ile Arg Lys Pro Asn Thr Gly Leu Ser Arg Arg  
50 55 60  
Xaa Leu Val Xaa Arg Ala Leu Gly Lys Asn Lys Gly Lys Xaa Lys  
65 70 75

<210> 1369  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1369  
Asn Gln Arg Gln Leu Ser Cys Cys Val Ser Ser Cys Trp Ile Leu Ser  
1 5 10 15  
Leu Gly Pro Thr Val Cys Gln Tyr Ser Cys Glu Leu Tyr Val Pro Pro  
20 25 30  
Val Leu His Thr Gln Val Cys Val Ser Val Tyr Ala Cys Phe Lys Gln  
35 40 45  
Thr Leu Asn Val His Met Tyr Ile Ile Tyr Thr Tyr Leu Tyr His Ile  
50 55 60  
Ser Ser Phe Ile Thr Ile Asp Tyr Thr Asn Trp Xaa  
65 70 75

<210> 1370  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1370

Ala	Arg	Ala	Tyr	Leu	Leu	Val	Ala	Ser	Asn	Leu	Thr	Pro	Ser	Leu	Ser
1				5					10					15	

Glu	Tyr	Val	Gln	Pro	Lys	Arg	Thr	Asn	Trp	Leu	Leu	Cys	Thr	Ser	Leu
		20					25						30		

Xaa	Ile	Xaa	Leu	Leu	Ser	Met	Val	Leu	Arg	Ser	Xaa	Thr	Val	Tyr	Leu
	35						40					45			

Xaa Leu  
50

<210> 1371

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1371  
Glu Lys Thr Phe Val Glu Arg Val Lys Asn Leu Thr Pro His Ser Arg  
1 5 10 15  
Pro Lys Ser Xaa His Gln Leu Lys Lys Ala Phe Lys Leu Gln His Pro  
20 25 30  
Leu Pro Lys Lys Phe Gln Thr Tyr Asn Trp Asn Phe Leu Xaa Pro Asn  
35 40 45  
Trp Asp Gln Phe Xaa Thr Pro Ile Arg Lys Lys Leu Met Val Ser Xaa  
50 55 60  
Xaa Val Thr Xaa Glu Lys His Phe Ser Phe Arg Xaa  
65 70 75

<210> 1372  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 1372  
Ile Cys Pro Gln Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser  
1 5 10 15  
Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu  
20 25 30  
Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu  
35 40 45  
Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
50 55

<210> 1373  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1373  
Ser Leu Asp Leu Ile Cys Pro Tyr Glu Arg Pro Gly Lys Asn Arg Leu  
1 5 10 15  
Xaa Ala Pro Xaa Leu Val Glu Leu Cys Pro Ser Ser Asp Ala Cys Gln  
20 25 30  
Glu Arg Val Glu Pro Arg Thr Leu Thr Lys Gly Gly Pro Gly Tyr Pro  
35 40 45  
Ile Ala Ala Leu  
50

<210> 1374  
<211> 114  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1374

Ala Arg Ala Glu Asp Pro His Ile Asp Glu Ser Lys Ala Xaa His Gln  
1 5 10 15

Ala Ile Ile Met Ser Thr Ser Leu Arg Val Ser Pro Ser Ile His Gly  
20 25 30

Tyr His Phe Asp Thr Ala Ser Arg Lys Lys Ala Val Gly Asn Ile Phe  
35 40 45

Glu Asn Thr Asp Gln Glu Ser Leu Glu Arg Leu Phe Arg Asn Ser Gly  
50 55 60

Asp Lys Lys Ala Glu Glu Arg Ala Lys Ile Ile Phe Ala Ile Asp Gln  
65 70 75 80

Asp Val Glu Glu Lys Thr Arg Ala Leu Met Ala Leu Xaa Glu Glu Asp  
85 90 95

Lys Arg Gln Ala Phe Pro Phe Leu Lys Leu Arg Xaa Phe Ser Phe Lys  
100 105 110

Xaa His

<210> 1375

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1375  
Ala Arg Gln Asp Thr Gln Glu Glu Arg Ala Ala Pro Gly Ser Arg Pro  
1 5 10 15  
Gly Leu His Ala Glu Ala Gly Gly Arg Arg Cys Pro Ala Glu Ser Pro  
20 25 30  
Glu Leu Arg Arg Pro Ala Leu Val Pro Ala Pro Ser Gly Arg Arg Phe  
35 40 45  
Glu Ser Asp Trp Cys Leu Ala Ala Ser Ser Ser Val Arg Asp His Glu  
50 55 60  
Val Leu Pro Ser Val Val Leu Lys Leu Phe Leu Xaa Ser Phe Ser Ser  
65 70 75 80  
Ala Leu Val Thr Gly Glu Xaa Pro Gly Asn Gly Phe Arg Xaa Arg Leu  
85 90 95  
Thr Ala Gly Asn Lys Xaa Thr Gly Thr  
100 105

<210> 1376  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1376

Arg Pro Thr Arg Pro Pro Thr Arg Pro Val Xaa Ser Ile Pro Xaa Leu  
1 5 10 15

Trp Ala Ala Xaa Val Ser Pro Pro Lys  
20 25

&lt;210&gt; 1377

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1377

Phe Thr Xaa Asn Ser Leu Tyr Phe Ser Cys Ile Lys Thr Leu Cys Cys  
1 5 10 15

Ser His Ser Trp Ser Xaa Ser Pro Leu His Gly Asp Cys Gly Val Gly  
20 25 30

Leu Asp Glu Val Gly Gln  
35

&lt;210&gt; 1378

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1378  
Phe Xaa Lys Arg Gly Pro Ser Ser Pro Val Ala Xaa Val Leu Glu Leu  
1 5 10 15  
Leu Asp Pro Pro Gly Cys Xaa Asn Ser Ala Arg Glu Gly Xaa Val Gly  
20 25 30  
Arg Ala Arg Arg Phe Pro Ala Xaa Val Ser Ala Arg Xaa Xaa  
35 40 45

<210> 1379  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1379

Leu	Leu	Lys	Xaa	Thr	Xaa	Ser	Cys	Ser	Tyr	Pro	Pro	Leu	Xaa	Ala	Glu
1				5					10					15	

Pro	Cys	Leu	Ile	Gln	Gln	Pro	Gly	Gly	Thr	Thr	Arg	Xaa	Pro	Ser	Leu
		20					25						30		

Thr Leu

<210> 1380

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1380

His Arg His Ala His Lys Glu Arg Leu Lys Lys Lys Lys Lys Xaa Ser

1                      5                      10                      15

Arg Gly Xaa Pro Xaa Thr Lys Xaa Ala Pro  
                    20                      25

<210> 1381

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1381

Asp Ala Glu Gly Arg Pro Glu Gly Arg Leu Phe Gly Met Thr Gly Ala  
1                      5                      10                      15

Gly Leu Gly Arg Asp Ser Gly Arg Trp Arg Glu Val Ser Phe Phe Gly  
                    20                      25                      30

Glu Thr Glu Arg Ala Arg Gly Gly Thr Val Gly Xaa Arg Xaa His Ser  
                    35                      40                      45

Val Ala Ala Ala Gly Val Arg Asp Ser Pro Pro Ile Ser Cys Ser Leu  
50                      55                      60

Gly Pro Trp Gly Arg Ser Gly His Arg Ser Asp Cys His Ala Asp Gly  
65                      70                      75                      80

Asp His Arg Arg Glu Leu Gly Gly Arg Lys Ala Pro Pro Pro Ala Gly  
                    85                      90                      95

Arg Gly Pro Leu Thr Thr Ser Arg Leu Pro Val Pro Leu Leu Lys Ser  
                    100                      105                      110

Asn Cys Cys Pro Phe Glu Ala Xaa  
                    115                      120



<210> 1382  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1382  
Phe Lys Cys Ser Ile Leu Met Pro Xaa Asn Lys Ser Phe Gly Asn Thr  
1 5 10 15  
Asn Trp Ser Ile Ile Gly Asn Ala Gly Met Phe Arg Leu Ser Gln Gln  
20 25 30  
Cys Phe Ala Phe Leu Cys Leu Phe Ser Val Asn Thr Asn Glu Val Asn  
35 40 45  
Ile Ala  
50

<210> 1383  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 1383  
Gln Ser Ala Ala Leu Pro Pro Val Thr Leu Ala Leu Leu Cys Leu Asp  
1 5 10 15  
Gly Val Phe Leu Ser Ser Ala Glu Asn Asp Phe Val His Arg Ile Gln  
20 25 30  
Glu Val Glu Glu Asp Gly Pro Ser Ser Cys Ser Glu Asp Asp Tyr Ser  
35 40 45  
Glu Leu Leu Gln Glu Ile Thr Asp Asn Leu Thr Arg Lys Glu Ile Gln  
50 55 60  
Ile Glu Lys Ile His Leu Asp Thr Ser Ser Phe Met Glu Glu Leu Pro  
65 70 75 80  
Gly Glu Lys Asp Leu Ala His Val Val Glu Ile Leu  
85 90

<210> 1384  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1384  
Asn Pro Ser Ala His Pro Ser Ile His Pro Ser Val Arg Pro Ser Met  
1 5 10 15  
Ser Pro Val Asp Arg Pro Ala Pro Leu Ala Gly Trp Val His Pro Pro  
20 25 30  
Ser Thr Trp Leu Thr Cys His Gly Arg Leu Cys Pro Ala Ser Asn Pro  
35 40 45  
Ile Leu Asn Ser Pro Lys Ala Xaa Gly Ala Val Gln Thr Gly Val Pro  
50 55 60  
Ser Ile Phe Ser Pro Thr Gly Val Phe Pro His Ala Val Xaa Tyr Asn  
65 70 75 80  
Pro His Ser Phe Leu Gly Pro Met Asn Phe Arg Ala Val Pro Phe Xaa  
85 90 95

Pro Gly His Leu Leu Cys Xaa Leu Xaa Lys  
100 105

<210> 1385  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1385  
Ile Gln Gly Leu Xaa Xaa Xaa Gly Ser Ser Leu Pro Ser Pro Ser Thr  
1 5 10 15

Arg Xaa Ser Leu Thr Xaa Ala Thr Gly Xaa Leu Xaa Arg Gly Phe Arg  
20 25 30

Ser Leu Xaa Gly Trp Val Pro Gly Asn Gly Xaa Arg Ser Xaa Leu Gly  
35 40 45

Ala Pro Xaa Gly Cys Pro Met Gly Xaa Leu Xaa Xaa Phe Arg Gly Xaa  
50 55 60

Trp Gly  
65

<210> 1386  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1386  
Lys Ile Ser Ser Xaa Trp Ala Glu Lys Leu Thr Gly Xaa Tyr Xaa Val  
1 5 10 15  
Thr Asn Arg Ile Gln Val Gly Trp Pro Leu Cys Thr Glu Leu Gln Val  
20 25 30  
Thr Ser Gly Glu Thr Trp Ala Xaa Thr Trp Lys Ala Lys Thr Glu Ala  
35 40 45

<210> 1387  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1387  
Ala Ile Tyr Arg Ile Val Trp Ala Phe Ser Cys Lys Trp Ser Glu Gly  
1 5 10 15  
Val Thr Phe Ser Pro Leu Xaa Xaa Xaa Val Xaa Pro Ile Leu Asn Lys  
20 25 30  
Gly Arg Xaa Glu Thr  
35

<210> 1388  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1388

Gly Xaa Ala Arg Lys Xaa Asp Ala Arg Ile Xaa Lys Ala Trp Val Arg  
1 5 10 15

Arg Ala Gly Thr Gly Ser Gly Asn Ser Arg Gly Arg Pro Thr Arg Ser  
20 25 30

Gly Ile Met Glu Tyr Asn Met Ser Ser  
35 40

<210> 1389

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1389  
Xaa Cys Leu Xaa Phe Xaa Cys Arg Ser Leu Leu Val Xaa Ser Gly Xaa  
1 5 10 15  
Thr Arg Arg His Val Ser Pro Pro Xaa Ser Ser Pro Ile Phe Arg Val  
20 25 30  
Xaa Pro Leu Leu Asn Xaa Gln Arg Pro  
35 40

<210> 1390  
<211> 39  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1390  
Gly Leu Cys Thr Phe Gly Ser Phe Tyr Xaa Lys Leu Lys Cys Tyr Tyr  
1 5 10 15  
Leu Gly Leu Tyr Leu Ala Ser Ala Phe Ser Phe Asn Cys Lys Val Glu  
20 25 30  
Ala Ile Lys Gln Tyr Phe Ser  
35

<210> 1391  
<211> 71  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1391  
Lys Ala Arg Val Tyr Pro Met Lys Xaa Ala Gly Ser Gln Leu Pro Pro  
1 5 10 15  
Gln Pro Phe Lys Arg Lys His Leu Leu His Arg Ala Val Leu Gly Val  
20 25 30  
Lys Arg Leu Leu Thr Tyr Asp Arg Val Arg Lys Ser His Ile Leu Val  
35 40 45  
Asn Xaa Pro Phe Gly Leu Lys Lys Lys Lys Asn Ser Arg Gly Gly  
50 55 60  
Pro Gly Tyr Pro Ile Xaa Pro  
65 70

<210> 1392  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1392  
Arg Arg Ile Thr Phe Trp Gly Ser His Ala Glu Gly Gly Ser Val Thr  
1 5 10 15  
Leu Pro Glu Lys Arg Val Ser Tyr Pro Xaa Ser Pro Gly Ser Thr Leu  
20 25 30

Lys Lys Asp Leu Ala Thr Glu Gly Ala Leu Gly Leu Pro Xaa Ser Leu  
35 40 45

Asp Ser Ser Tyr Lys Cys Pro Cys Ser Gln  
50 55

<210> 1393

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1393

Gly Arg Ala Xaa Ala Ala Gly Pro Xaa Pro Ala Ala Gly Ala Val Ala  
1 5 10 15

Ser Tyr Asp Tyr Leu Val Ile Gly Gly Gly Ser Gly Gly Leu Ala Xaa  
20 25 30

Val Val Glu Ser His Lys Leu Gly Gly Xaa  
35 40

<210> 1394

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1394  
Gly Thr Arg Leu Ser Thr Ala Gln Leu Ser Pro Ala Gln Ser Asn Pro  
1 5 10 15  
Ala Gln Pro Ser Pro Thr Gln Pro Ser Ser Ala Gln Xaa Ser Pro Ala  
20 25 30  
Gln Leu Ser Ser Ala Xaa  
35

<210> 1395  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 1395  
Lys Leu Lys Lys His Phe Leu Lys Gly Ala Leu Ile Lys Ser Glu Val  
1 5 10 15  
Phe Trp Leu Ser Phe Phe Ser Val Tyr Ile Phe Phe Leu Ser Leu Trp  
20 25 30  
His Arg Val Asp Leu Lys Tyr Ser Ser Ser Ile Leu His Ser Ser Pro  
35 40 45  
Ser Ile Gly Ser Ser Ser Phe Asn Glu Phe Gln Leu Tyr Leu Thr Ser  
50 55 60  
Ala Ser  
65

<210> 1396  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 1396  
Leu Leu Leu Lys Arg Phe Pro Phe Leu Phe Lys Leu Leu Met Asp Gln

1 5 10 15  
Arg Thr Ile Val Tyr Phe Phe Ser Leu Val Leu Asp Ile Asn Asp Asn  
20 25 30  
Leu Val Gly Asn Phe Phe Ser Lys Glu Asn Ile Phe Met Asn  
35 40 45

&lt;210&gt; 1397

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1397

Met Glu Phe Arg Leu Leu Thr Phe Asn Val Ile Ile Asn Ile Val Gly  
1 5 10 15

Phe Lys Cys Thr Val Leu Leu Phe Val Ser Tyr Leu Cys Gln Leu Phe  
20 25 30

Phe Asn Val Phe Cys Ser Xaa Xaa Phe Leu Phe Phe Pro  
35 40 45

&lt;210&gt; 1398

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398  
Asn Phe Tyr Ser Xaa Lys Asn Leu Gly Phe Pro Leu Asn Ile Pro Pro  
1 5 10 15  
Phe Phe Pro Ser Phe Pro Gln Ile Pro Xaa Phe Tyr Phe Phe Gly Glu  
20 25 30  
Ile Arg Phe Ala Pro Phe Phe Xaa Pro Thr Leu Leu Xaa Glu Met Pro  
35 40 45  
Xaa Pro Trp Asn Glu Xaa Lys Gly Xaa Xaa Leu Arg Leu Xaa Gly  
50 55 60

<210> 1399  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1399  
Ile Leu Xaa His Phe Lys Phe Xaa His Arg Thr Ser Xaa Ser Leu Val  
1 5 10 15  
Asn Leu Met Leu Ser Lys Lys Glu Gln Leu Leu Gly Pro Lys Lys Lys  
20 25 30  
Leu Val Xaa Lys Leu Lys Phe Thr Pro Cys Ser Xaa Xaa  
35 40 45

<210> 1400  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1400  
Asp Phe Ala Lys Ser Tyr Leu Arg Asn Thr Ile Glu Gly Thr Pro Ala  
1 5 10 15  
Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Leu Gly  
20 25 30  
Xaa Thr Xaa Gln Thr Gln Asp Arg Val Asp Ser Ala Cys Asp Gly Val  
35 40 45  
Xaa Xaa Leu Leu Ala Pro Leu His Gln Cys Leu Xaa His Ile Tyr Ile  
50 55 60  
Trp Cys Ala Gln Glu  
65

<210> 1401  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1401  
Arg Leu Lys Asn Ala Arg Gly Tyr Trp Xaa Ile Ser Ser Tyr Glu Glu  
1 5 10 15

Arg Ser Xaa Ser Met Lys Xaa Xaa Gly Arg Lys Met Ser  
20 25

<210> 1402  
<211> 74  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1402  
Ser Cys Ser Xaa Arg His Glu Pro Gln Val Gln Thr Phe Gly Val Cys  
1 5 10 15  
Ala Trp Leu Arg Ser Gln Trp Gly Glu Ala Thr Ile Cys Gly Ile Met  
20 25 30  
Thr Glu Arg Leu Xaa Val Arg Ile Pro Pro Arg Arg Asn Asp Xaa Ala  
35 40 45  
Xaa Pro Xaa Ile Leu Gly Trp Pro Leu Ile Ser Gly Pro Pro Pro Val  
50 55 60  
Pro Ala Gly Gly Ala Gly Pro Gly Ser Arg  
65 70

<210> 1403  
<211> 64  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1403

Thr Ser Thr Val Lys Ser Thr Lys Leu Leu Ala Thr Thr Leu Arg Ala  
1 5 10 15

Thr Ala Xaa Asn Ser Lys Glu Leu Ala Val Leu His Ile Pro Leu Lys  
20 25 30

Arg Xaa Cys Ser Val Ile Asp Lys Pro Arg Ser Xaa Ser Pro Leu Leu  
35 40 45

Leu Thr Tyr Xaa Gln Lys Lys Lys Lys Asn Ser Xaa Gly Ala Gly Ser  
50 55 60

<210> 1404

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1404  
Gly Xaa Asn Thr His Xaa Lys Ser Pro His Leu Thr Ile Pro Pro Xaa  
1 5 10 15  
Xaa Xaa Lys Asn Ala Xaa Ile Arg Met Thr Xaa Val Phe Leu Leu Ser  
20 25 30  
Lys Xaa Asp Pro Ser Cys Ala Pro Leu Ala  
35 40

<210> 1405  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 1405  
Lys Leu Leu Leu Gln Gly Leu Ala Thr Cys Arg Gln Glu Glu Ala Glu  
1 5 10 15  
Leu Asp Ile Arg Pro Gln Gly Cys His Leu Ser Cys Arg Ala Trp Pro  
20 25 30  
Cys Gly Gln Gly Ala Val Leu Cys Leu Val Gly Pro Gln Pro Leu Arg  
35 40 45  
Ala Glu Met Leu Ser Val Pro Gln Gly Lys Gly Arg Val Phe Trp Lys  
50 55 60  
Ala Leu Pro Trp Thr Phe Val Leu Gly Leu Arg Gly Pro Thr Leu Pro  
65 70 75 80  
His Thr Cys Pro

<210> 1406  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 1406  
Leu Leu Gly Asp Lys Lys Ala Trp Glu Gly Pro Val Pro Lys Pro Ser  
1 5 10 15  
Leu Pro Gly Asp Trp Ala Val Ile Pro Leu Leu Pro Gly Leu Leu Pro  
20 25 30  
Trp Pro Pro Arg Gly Ala Asp Thr Leu Ala Pro Gly Ala Gly Glu Asn  
35 40 45  
Pro Pro Gly Gly Arg Arg Lys Ala Arg Ala Gly Asp  
50 55 60

<210> 1407  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 1407  
Gln Asn Pro Leu Ser Ser Pro Phe Gly Pro Gly Leu Arg Gly Pro Gly  
1 5 10 15  
Gly Ala Gly Gly Glu Leu Ser Gly Ala Thr Thr Pro Cys Pro Gln Trp  
20 25 30  
Thr Asn His Ser Ser Ser Gln Gly Trp Ala Leu Glu Val Pro Gly Arg  
35 40 45  
Arg Val Pro Leu Pro Ser Ala Ile His Val Arg Ser Leu Val Gly Gly  
50 55 60  
Pro Gln Ser His Ser Gly Lys Gly Ser Arg Val Gln Pro Ser Ser Cys  
65 70 75 80  
Ser Phe Pro Ser Leu Ile Ser Ile Asn Leu Ser Thr Pro Leu Leu Trp  
85 90 95

Gly

<210> 1408  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1408  
Asn Pro Gly Xaa Pro Xaa Val Xaa Phe Pro Pro Xaa Xaa Lys Glu Thr  
1 5 10 15  
Thr Thr Trp Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
20 25 30  
Asn Lys Glu Xaa  
35

<210> 1409  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1409  
 Cys Gln Glu Cys Arg Leu Val Tyr Val Pro Gly Gly Gly Thr Gln Arg  
   1                  5                  10                  15  
 Gly Ala Pro Gly Phe Pro Cys Pro Pro Ala Ala Leu Pro Leu Phe Pro  
                   20                  25                  30  
 Phe Phe Pro Asp Xaa Arg Pro Glu Pro Val Pro Xaa Leu Xaa Ile Asn  
   35                  40                  45  
 Leu Cys Glu Ile Lys Lys Lys Lys Lys Lys Asn Ser Gly Gly Gly Pro  
   50                  55                  60  
 Val Pro Xaa Trp Ala Leu  
   65                  70

<210> 1410  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1410

Gly Arg Ala Pro Glu Glu Gln Asp Ala Leu Tyr Leu Gln Arg Arg Glu  
1 5 10 15

Ala Ala Ser Xaa Pro Xaa Leu Xaa Leu Pro Glu Ser Arg Lys Asp Pro  
20 25 30

Pro Trp Asp Ser Ser Val Cys Xaa Lys Asp Ala Pro Xaa Leu Xaa Pro  
35 40 45

Gly Phe Pro Ser Xaa Arg His Arg Thr Gln Phe Ser Arg Pro Gly Gly  
50 55 60

Arg Ala Pro Ile Thr Pro Gln Ala Lys Xaa Lys Pro Pro Cys Pro Gly  
65 70 75 80

Pro Lys Pro Leu Xaa Pro Pro Phe Pro Trp Phe Pro Arg Glu Pro Val  
85 90 95

Thr Thr Leu Xaa Arg Ala Leu Thr Pro Met Ala Ser Phe Leu Trp Phe  
100 105 110

Ser Pro Arg Gly Gln Leu Val Pro Asn Xaa Xaa Xaa Arg Leu Gly Phe  
115 120 125

Pro Xaa Lys Lys Asn Phe Gly Phe Ile Xaa Lys Lys Lys Arg Xaa Gly  
130 135 140

Gly Gly Gly Pro Gly



145

<210> 1411  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1411

Pro Xaa Leu Gly Ile Xaa Asn Leu Leu Xaa Ser Ser His Cys Pro Lys  
1 5 10 15

Pro Ser Xaa Cys Leu Leu Asp Ala Tyr Ser Xaa Cys Gly Tyr Gly Gly  
20 25 30

Ser Leu Ser Pro Xaa Ser Asp Met Ser Ser Leu Leu Gly Val Asn Xaa  
35 40 45

Ser Xaa Glu Asp Thr Phe Xaa Asn Lys Leu Phe Pro Gln Leu Ile Ser  
50 55 60

Val  
65

&lt;210&gt; 1412

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1412

Glu Phe Gln Ser Met Gly Ser Arg Leu Ser Gln Pro Phe Glu Ser Tyr  
1 5 10 15

Ile Thr Ala Pro Pro Gly Thr Ala Ala Ala Pro Ala Lys Pro Ala Pro  
20 25 30

Pro Ala Thr Pro Gly Ala Pro Thr Ser Pro Ala Glu His Arg Leu Leu  
35 40 45

Lys Thr Cys Trp Ser Cys Arg Val Leu Ser Gly Leu Gly Leu Met Gly  
50 55 60

Ala Gly Gly Tyr Val Tyr Trp Val Ala Arg Lys Pro Met Xaa Xaa Gly  
65 70 75 80

Tyr Pro Pro Ser Pro Trp Thr Ile Thr Gln Met Val Ile Gly Leu Ser  
85 90 95

Glu Asn Gln Gly Ile Ala Thr Trp Gly Ile Val Val Met Ala Asp Pro  
100 105 110

Lys Gly Lys Ala  
115

<210> 1413  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1413  
Asn Leu Ser Ser Thr Leu Asn Leu Pro Gln Asn Pro Leu Asn Pro Leu  
1 5 10 15

Xaa Asn Leu Thr Val Val Gln Arg Gly Thr Ala Leu Trp Thr Leu Gly  
20 25 30

Lys Asn Leu Val Glu Arg Gly Lys Xaa Tyr Thr His Ser Xaa Pro Lys  
35 40 45

Ser Ser Thr Asn  
50

<210> 1414  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1414  
Pro Thr Glu Gln Val Thr Leu Gly Ile Thr Ala Gln Ser Tyr Ser Arg  
1 5 10 15  
Val His Ile Asn Asn Arg Val Tyr Asp Leu Asp Val Gly Ser Gly His  
20 25 30  
Pro Asp Gly Ala Ala Ala Ile Lys Gly Ser Phe Gly Gln Arg Leu Lys  
35 40 45  
Xaa Tyr Val Ile  
50

<210> 1415  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1415  
Ser Lys Ser Ala Xaa Phe Gln Arg Leu Trp Tyr Gly Leu Ser Ala Ala  
1 5 10 15  
Ser Asn Lys Met Lys Ser Gln Asn Arg Ala Xaa Xaa Xaa Lys Ser Ile  
20 25 30  
Phe Ser Ala Val Leu Asp Cys Thr Xaa Ala Leu Pro Xaa Ile Asp Thr  
35 40 45  
Gln Thr Pro Leu Gln Thr Gln  
50 55

<210> 1416  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1416  
Ile Cys Pro Gln Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser  
1 5 10 15  
Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu  
20 25 30  
Ser Xaa Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu  
35 40 45  
Arg Lys Arg Gln Ala Gln His Pro Leu Pro Lys Lys Ser Gln Thr Tyr  
50 55 60  
Asn  
65

<210> 1417  
<211> 22  
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<213> Homo sapiens

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1417

Asp	Thr	Ser	Xaa	Gly	Thr	Gly	Pro	Met	Glu	Met	Tyr	Arg	Xaa	Phe	Pro
1				5				10						15	

Ile	Leu	Val	Xaa	Ser	Leu
				20	

<210> 1418

<211> 54

<212> PRT

<213> Homo sapiens

<220>

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1418

Gly Ile Arg Ile Phe Cys Lys Trp Arg His Ile Gln Lys Lys Ser Leu  
1 5 10 15

Asn Gly Xaa Ile Gly Met Glu Trp Gly Lys Xaa Phe Trp Lys Xaa Ile  
20 25 30

Pro Ile Leu Pro Gly Arg Leu Phe Glu Val Xaa Ile Xaa Val Pro Asn  
35 40 45

Lys Val Asn Xaa Phe Leu  
50

&lt;210&gt; 1419

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1419

Gln Leu Leu Leu Ser Val Arg Leu His Phe Ala Pro Tyr Asn Tyr Cys  
1 5 10 15

Phe Gln Ile Ser Thr Cys Met Cys Leu Ser Leu Lys Ala Leu Val Lys  
20 25 30

Ser His Ile Leu Tyr Ser Ala  
35

&lt;210&gt; 1420

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1420  
Gly Gly Gly Ala Xaa Pro Glu Gly Leu Ser Leu Leu Ala Pro Ser Ala  
1 5 10 15  
Arg Ser Arg Ala Gly Arg Ala Leu Pro Ala Pro Gly Thr Val Pro Gly  
20 25 30  
Gly Glu Tyr Asp Xaa Xaa Xaa Thr Pro Val Lys Xaa Glu  
35 40 45

<210> 1421  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 1421  
Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp  
1 5 10 15  
Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys  
20 25 30  
Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly Arg  
35 40 45  
Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr Asp  
50 55 60



Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala  
 65 70 75 80  
 Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln  
 85 90 95  
 Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Leu Gly Ser Arg Pro  
 100 105 110  
 Leu Leu Ser Arg Gln Pro Ser Gln Ala Cys Thr Leu Ile Asp Gln His  
 115 120 125  
 Arg Ala Ser Leu Ser Arg Arg Ser  
 130 135

<210> 1422  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1422  
 Gly Met Thr Pro Phe Cys Gly Leu Lys Cys Asp Ala Leu Gln Lys His  
 1 5 10 15  
 His Ser Asp Gly Gln Leu Asp Ser Gly Val Leu Arg Leu Cys Pro Leu  
 20 25 30  
 Pro Thr Ala Ser Leu Pro His Pro Ser Leu Gln Ser His Phe Ser Asp  
 35 40 45  
 Arg Ala Ile Pro Lys Asn Thr Glu Gly Leu Glu Cys Trp Leu Ala Thr  
 50 55 60  
 Leu Cys Leu Ser Gly Leu Pro Lys Ala Trp Lys Lys Glu Gly Pro Asp  
 65 70 75 80  
 Cys Gln Gly Asn Leu Leu Ile Gly Leu Arg Arg His Trp Ser Leu Xaa  
 85 90 95

Cys Gly Ala Pro Gln Ser Cys Arg Ser Asn Ala Leu Leu Ala Xaa Leu  
100 105 110

Ala Trp Leu  
115

<210> 1423

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1423

Arg Ala His Pro Ser Ile Phe Ala Xaa Ile Val Gly Lys Ile Tyr Arg  
1 5 10 15

Phe Glu Gly Glu Gln Thr Tyr Arg Ala Trp Leu Ile Ser Leu Phe Val  
20 25 30

Pro Arg Leu Glu Ser Leu Phe Pro Thr Phe Xaa Phe Leu Pro His Gln  
35 40 45

Xaa Pro Ser Phe  
50

<210> 1424

<211> 53

<212> PRT

<213> Homo sapiens

<220>

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1424

Leu Cys Lys Gly Glu Pro Lys Leu Arg Pro Pro Lys Pro Asp Glu Leu  
1 5 10 15

Pro Lys Lys Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val  
20 25 30

Gly Arg Phe Ile Gly Xaa Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser  
35 40 45

Trp Phe Pro Xaa Glu  
50

<210> 1425

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1425

Leu Phe Phe Phe Leu Asn Xaa Xaa Leu His Xaa Phe Ser Xaa Phe Gln  
1 5 10 15

Asp Gly Arg Cys Tyr Gly Phe  
20

<210> 1426

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1426

Lys Gly Leu Glu Lys Gln Xaa Arg Leu Lys Ala Xaa Ser Ser Lys Pro  
1 5 10 15

Asn Gln Xaa Ser Xaa Xaa Gly Gln Xaa Val Ala Leu Xaa Val Pro Xaa  
20 25 30

Gln Lys Xaa Xaa Xaa Trp Glu Lys Gly Glu Xaa Xaa Gly Asn Xaa Xaa  
35 40 45

Leu Lys Leu Xaa Leu Leu Gly Xaa Ile Pro Pro Trp Lys Leu Xaa Ser  
50 55 60

Phe Leu Gly Lys Arg Xaa Lys Xaa Gln Pro Xaa  
65 70 75

<210> 1427

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (149)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (162)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (172)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1427  
Pro Pro Cys Cys Cys Pro Thr Thr Pro Thr Cys Ser Arg Cys Gly Arg  
1 5 10 15  
Cys Arg Gly Gly Trp Ala Ala Gln Leu Thr Gly Arg Arg His Ser Pro  
20 25 30  
Arg His Ala Gly Ser Pro Arg Pro Ala Arg Trp Pro Cys Lys Thr Ala  
35 40 45  
Ser Gly Pro Ser Pro Ser Cys His Ala Ala Xaa Gly Asp Met Gly Arg  
50 55 60  
Val Ala Leu Lys Ser Arg Gly Ala Val Gly Thr Asp Cys Gly Gln Glu  
65 70 75 80  
Ala Trp Lys Val Trp Cys Gly Cys Xaa Cys Glu Ser Glu Cys Glu Cys  
85 90 95  
Ala Gly Arg Pro Gln Gly Gln Glu Ala Ala Ala Pro Arg Leu Lys Ala  
100 105 110  
Met Ala Ala Met Asp Leu Xaa Gln Gly Pro Arg Leu His Gly Xaa Arg  
115 120 125  
Thr Trp Asn His Asp Ser Gly His Trp Ile Trp Gly Gln Gly His Val  
130 135 140  
Asp Lys Thr Phe Xaa Thr Val Phe Phe Thr Lys Ala Glu Glu Pro Arg  
145 150 155 160

Met Xaa Pro His Ala Pro Pro Asn Asn Cys Pro Xaa Leu Arg  
165 170

<210> 1428  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 1428  
Ser Ile Gly Ser Gly Thr Ser Cys Arg Thr Gln Leu Lys Thr His Val  
1 5 10 15  
Phe Phe His Arg Ile Met Cys Gln Phe Phe Val Ala Met Ile Phe Leu  
20 25 30  
Leu Glu Ser Gln Lys Cys Phe Val Pro Glu His Leu Gln Thr Ala Leu  
35 40 45  
Arg Lys Asn Ser Gln Asn His Pro Leu Phe Pro Phe Leu Tyr Tyr Leu  
50 55 60

<210> 1429  
<211> 120  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1429

Asp Xaa Gly Phe Arg Met Ala Ala Pro Val Arg Ile Thr Val Leu Cys  
1 5 10 15

Ser Lys Glu Asn Asp Ser Thr Cys Ser Phe Ser Leu Val Glu Val Thr  
20 25 30

Leu Val Ser Cys Trp Gly Gly Gly Xaa His Phe Phe Xaa Val Ser Val  
35 40 45

Glu Ser Lys Met Asn Asn Lys Ala Gly Ser Phe Phe Trp Asn Leu Arg  
50 55 60

Gln Phe Ser Thr Leu Val Ser Thr Ser Arg Thr Met Arg Leu Cys Cys  
65 70 75 80

Leu Gly Leu Cys Lys Pro Lys Ile Val Pro Phe Lys Leu Glu His Phe  
85 90 95

Glu Ile Thr Phe Ile Thr Glu Cys Asn Gln Arg Met Ile Ile Glu Xaa  
100 105 110

Ala Leu Ala Gly Cys Xaa His Phe  
115 120

<210> 1430

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1430

Thr Cys Val Thr Lys Lys Lys Met Asn Val Leu Lys Arg Val Leu Gly  
1 5 10 15

Gly Trp Phe Asn Lys Glu Thr Lys Met Leu Trp Cys Leu Asp Leu Trp  
20 25 30

Leu Leu Lys Met Ser Ser Gln Val Lys Ser Leu Val Cys Leu His Leu  
35 40 45

Ile His Phe Cys Thr Asn  
50

<210> 1431  
<211> 132  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1431  
Thr Val Thr Val Xaa Xaa Ser Arg Val Arg Pro Ser Ala Ser Gly Arg  
1 5 10 15  
Val Phe Met Trp Thr Val Ser Gly Thr Pro Cys Arg Glu Phe Trp Ser  
20 25 30  
Arg Phe Arg Lys Glu Lys Glu Pro Val Val Val Glu Thr Val Glu Glu

35 40 45  
Lys Lys Glu Pro Ile Leu Val Cys Pro Pro Leu Arg Ser Arg Ala Tyr  
50 55 60  
Thr Pro Pro Glu Asp Leu Gln Ser Arg Leu Glu Ser Tyr Val Lys Glu  
65 70 75 80  
Val Phe Gly Ser Ser Leu Pro Ser Asn Trp Gln Asp Ile Ser Leu Glu  
85 90 95  
Asp Ser Arg Leu Lys Phe Asn Leu Leu Ala His Leu Ala Asp Asp Leu  
100 105 110  
Gly His Val Val Pro Lys Leu Xaa Thr Pro Pro Asp Val Xaa Gly Xaa  
115 120 125  
Arg Cys Xaa Xaa  
130

&lt;210&gt; 1432

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1432

Ser Gly Thr Val Lys Arg His Xaa Arg Xaa Xaa Ile Ser Gly Arg Pro  
1 5 10 15

Pro Ala Pro Pro Arg Xaa Pro Arg Glu Gly Pro Gly Ala Gly  
20 25 30

<210> 1433  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1433  
Thr Pro Leu Ser Gln Asn Pro Ala Gln Ala Glu Arg Tyr Gly Ser Ala  
1 5 10 15  
Ala Glu Pro Arg Leu Ala Ser Asp Ser Arg Ser Pro Arg Cys Pro Arg  
20 25 30  
Arg Arg Ala Ala Xaa Xaa Xaa Arg Xaa Pro Pro  
35 40

<210> 1434  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1434  
Leu Asn Ala Ser Lys Ser Glu Ser Arg Pro Gly Gly Thr Ile Arg Gln  
1 5 10 15  
Arg Arg Gly Ala Ser Asp Gly Ser Asp Ser Arg Ser Pro Ala Xaa Pro  
20 25 30  
Arg Arg Arg Ala Ala Pro Pro Xaa Arg Ala Xaa Arg Ala Arg Glu  
35 40 45

<210> 1435  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1435  
Cys Leu Ser Phe Leu Tyr Tyr His Arg Tyr Phe Pro His Ser Leu Ala  
1 5 10 15  
Xaa Ala Cys Arg Met Leu Xaa Lys Ser Leu Ile Asn His Trp Ala Lys  
20 25 30  
Tyr Thr Glu Gly Glu Ala Ser Ser Ile Phe Lys Leu Val Ser Lys Phe  
35 40 45  
Phe Ile Ala  
50

<210> 1436  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1436  
Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15  
Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Val  
20 25 30  
Val Gln Asp Arg Ile Leu Ser Ser Thr Leu Asn Leu Pro Gln Asn Pro  
35 40 45  
Leu Asn Pro Leu Xaa Asn Leu Thr Gly Ser Pro Lys Arg Asn Ser Ser  
50 55 60  
Leu Asp Thr Arg Lys Lys Pro Cys Xaa Glu Ser Lys Lys Ile Asn Xaa

65                      70                      75                      80  
His Ser Xaa Pro Lys Ser Ser Thr Xaa Xaa Lys Ala Val Lys Leu Thr  
                            85                      90                      95

<210> 1437  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 1437  
Ile Cys Pro Gln Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser  
1                      5                      10                      15  
Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu  
                            20                      25                      30  
Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu  
                            35                      40                      45  
Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
                            50                      55

<210> 1438  
<211> 121  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1438  
Asp Gly Gly Ser Ser Val Gln Ser Glu Ala Glu Ala Ser Val Asp Pro  
1                      5                      10                      15  
Ser Leu Ser Trp Gly Gln Arg Lys Lys Leu Tyr Tyr Asp Thr Asp Tyr  
                            20                      25                      30  
Gly Ser Lys Ser Arg Gly Arg Gln Ser Gln Gln Glu Ala Glu Glu Glu  
                            35                      40                      45  
Glu Arg Glu Glu Glu Glu Glu Ala Gln Ile Ile Gln Arg Arg Leu Ala

50                      55                      60  
 Gln Ala Leu Gln Glu Asp Asp Phe Gly Val Ala Trp Val Glu Ala Phe  
 65                      70                      75                      80  
 Ala Lys Pro Val Pro Gln Val Asp Glu Ala Glu Thr Arg Val Val Lys  
 85                      90                      95  
 Asp Leu Ala Lys Gly Ser Val Glu Arg Lys Thr Xaa Lys Cys Cys Lys  
 100                      105                      110  
 Arg Asn His Gln Asn Ser Trp Ser Leu  
 115                      120

<210> 1439  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1439  
 Leu Leu Asn Ile Leu Glu Phe Phe Tyr Ser Trp Tyr Leu Lys Lys Lys  
 1                      5                      10                      15  
 Lys Lys Arg Ala Ala Ala Leu Glu Asp Pro Ser Arg Gly Pro Ser Phe  
 20                      25                      30  
 Thr Arg Ala Cys Asp Val His Ser Ser Leu Pro Ile Val Ser Arg Ile  
 35                      40                      45  
 Ile Lys Leu Gly Thr Gly Arg Ala Val Tyr Asn Val Arg Gly Leu Gly  
 50                      55                      60  
 Arg Ser Ala Ser Leu Gly Xaa Xaa Val Glu Gly Thr Leu Leu  
 65                      70                      75

<210> 1440  
 <211> 121



<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1440  
Leu Cys Ala Phe Ser Ala Pro Phe Ser Gly Cys Pro Thr Leu Pro Leu  
1 5 10 15  
His Ala Ala Trp Ala Ala Arg Xaa Arg Xaa Pro Thr Gly Ser Lys Cys  
20 25 30  
Ala Phe Leu Arg Ala Leu Pro Glu Ser Ser Thr Ala His Pro Val Ala  
35 40 45  
Pro Cys Leu Ala Trp Pro Gly Leu Pro Gly Pro Ser Leu Pro Met Leu  
50 55 60  
Leu His Val Leu Ile Phe Leu Phe Gly Pro Leu Leu Pro Pro Leu Ala  
65 70 75 80  
Val Leu Pro Leu Gly Leu Xaa Pro Ser Cys Leu Asn Leu Gly Lys Val  
85 90 95  
Leu Ser Leu Trp Xaa Ser Ser Ser Xaa Pro Arg Val Leu Glu Pro Gly  
100 105 110  
Leu Phe Pro Thr Gly Pro Thr Leu Thr

115

120

<210> 1441  
<211> 121  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (120)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1441

Gln Xaa Ile Ser Ala Pro Trp Gly Leu Glu Gln Asn Trp Gln Arg Gly  
1 5 10 15  
Lys Arg Ser Leu Arg Ala Ser Val Thr Gln Asp Leu Pro Pro Ala Cys  
20 25 30  
Pro Ser Pro Ala Arg Leu Leu Glu Asn Gly His Cys Ala Gln Pro Gly  
35 40 45  
Pro Trp Ala Ala Gln Ala Gly Val Xaa His Gly Pro Gly Pro Pro Ser  
50 55 60  
Leu Pro Leu Leu Arg Pro Pro Ala Phe Arg Gln Ala Lys Ala Xaa Phe  
65 70 75 80  
Xaa Pro Thr Arg Pro Pro Gln Gly Ala Ser Gly Ala Gln Val Gly Pro  
85 90 95  
Ser Phe Asn Leu Pro Val Val Val Val Gly Ala Leu Xaa Xaa Pro Gln  
100 105 110  
Arg Ser His Phe Xaa Gly Xaa Xaa Trp  
115 120

&lt;210&gt; 1442

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1442

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15  
Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30  
Ser Lys Ile Glu Ser  
35

&lt;210&gt; 1443

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1443

Ala Lys Pro Xaa Pro Lys Pro Thr Pro Pro Tyr Tyr Xaa Thr Thr Leu  
1 5 10 15

Ala Lys Pro Phe Thr Gln Ile Lys Tyr Xaa Arg Tyr Lys Leu Lys Pro  
20 25 30

Xaa Xaa Ile His Ile Leu Pro Pro Gly Lys His Glu Lys Leu Xaa Pro  
35 40 45

Xaa Xaa Ile Xaa Xaa Gly Leu Thr Pro Ile Pro Ser Ala  
50 55 60

&lt;210&gt; 1444

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1444

Asn Ala Tyr Val Asn Phe Phe Leu Phe Leu Ser Ile His Pro Asn Lys  
1 5 10 15

Lys Ile Thr Gly Lys Pro Met Phe Leu Arg Cys His Tyr Ser Lys Gln  
20 25 30

Asn Lys Arg  
35

&lt;210&gt; 1445

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1445  
 Gly Arg Gly Ser Ser Gly Leu Met Leu Gly Cys Arg Ser Ala Pro Val  
   1                  5                  10                  15  
 Ala Thr Pro Pro Xaa Gln Pro Gly Xaa Leu Gly Ala Arg Leu Gly Val  
                   20                  25                  30  
 Leu Thr Gly Val Gly Xaa Thr Pro Asn Ser Lys Ser Leu Arg Lys Arg  
       35                  40                  45  
 Glu Val Glu Gly Glu Ala Ser Xaa Xaa Ile Lys Ala Pro Ile Arg Ser  
       50                  55                  60  
 Lys Lys Lys Lys Lys Xaa Xaa Gly Gly Gly Pro Xaa Pro Asn Xaa  
   65                  70                  75

<210> 1446  
 <211> 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

Phe Ala Cys Ser Arg Arg Gly Val Ala Leu Ile Ser Ala Met Ser Ser  
1 5 10 15

Gln Lys Gly Asn Val Ala Arg Ser Arg Pro Gln Lys His Gln Asn Thr  
20 25 30

Phe Ser Phe Lys Asn Asp Lys Phe Asp Lys Ser Val Gln Thr Lys Lys  
35 40 45

Ile Asn Ala Lys Leu His Asp Gly Val Cys Gln Arg Cys Lys Glu Val  
50 55 60

Leu Glu Trp Arg Val Lys Tyr Ser Lys Tyr Lys Pro Leu Ser Lys Pro  
65 70 75 80

Lys Lys Cys Val Lys Cys Leu Gln Lys Thr Val Lys Asp Ser Tyr His  
85 90 95

Val Met Cys Arg Pro Cys Ala Leu  
100

&lt;210&gt; 1447

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1447

Tyr Pro Arg Xaa Leu Xaa Cys His Arg Val Ala Gln Ala Cys Pro Ala  
1 5 10 15

Thr Pro Arg Ile Thr Leu Trp Pro Ser Ala Ser Gly Met Ser Xaa Arg  
20 25 30

Trp Ser

<210> 1448

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1448

His Xaa Xaa Asn Pro Xaa Ser Asn Xaa Lys Tyr His Arg His Xaa Xaa  
1 5 10 15

His Lys Glu Tyr Lys Xaa His His Pro Xaa Ala Trp Glu Asn Val Val  
20 25 30

Glu Asn Leu His Leu Tyr Xaa Ile Leu Lys Met Lys Leu Gly Val Val  
35 40 45

Val His Thr Cys Gly Pro Ser Leu Leu Gly Xaa Leu Gln Pro Gly Xaa  
50 55 60

Xaa Ala Pro Xaa Gln Gly Leu Val Ala Ala Met Ser Ser Xaa Leu Ala  
65 70 75 80

<210> 1449  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1449  
 Gly Thr Val Tyr Leu Glu Leu Arg Gly Phe Pro Arg Thr Met Gly Met  
           1                  5                  10                  15  
 Ala Lys Asn Lys Leu Val Lys Ser Asp Pro Gly Thr Gln Gln Leu Ile  
           20                  25                  30  
 Leu Xaa Phe Phe Leu Ser Leu Ser Arg Val Phe Phe Pro Pro Trp Ala  
           35                  40                  45  
 Gly Met His Thr Ala Ala Ala Leu Val Ser Gly Gln Ala Asp Gly Leu  
           50                  55                  60  
 Gly Ala Ser Pro Arg Gly Val Ala Gly Ala Glu Asp Pro Pro Arg Arg  
           65                  70                  75                  80  
 Thr Pro Ala Ser Ser Ala Gly Gln Arg Gln Ala Gly Arg Ala Phe Arg  
                   85                  90                  95  
 Gly Ala Arg Ala Phe Xaa Gln Ala Cys Ser Pro Xaa Cys Ser  
           100                  105                  110

<210> 1450  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1450  
Xaa Ser Ala Glu His Phe His Arg Leu Pro Arg Arg Xaa Xaa Gln Leu  
1 5 10 15  
Arg Asp Val His His Gly Trp Ala Pro Arg Gly Glu Arg Arg Pro Thr  
20 25 30  
Xaa Ala Val Pro Val Arg Glu Arg Glu Gly Phe Arg Gly Val Arg Arg  
35 40 45  
Arg Thr Leu Gly Pro Pro Ala Ala Val Tyr Arg Ala Ser His Leu Leu  
50 55 60  
Ser Xaa Phe Pro Leu Ser Arg Ser Lys Asn Thr Lys Leu Gly Thr Pro  
65 70 75 80



35

40

<210> 1452  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1452  
Thr Ser Ser Gly Thr Arg Asp Leu Pro Leu Gly Trp Pro Ala Arg Arg  
1 5 10 15

Xaa Arg Xaa Gly Xaa Pro Gly Ser Thr His Ala Ser Ala Ile Leu Leu  
20 25 30

Glu Xaa Ile Xaa Leu Ser Pro Pro  
35 40

<210> 1453  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1453  
Xaa Ser Ala Thr Gln Glu Val Arg Ile Leu Leu Ala Ser Ala Gly Cys  
1 5 10 15  
Cys Phe Phe Ser Gly Ser Gly Thr Gly Arg Gly Pro Val Val Tyr Leu  
20 25 30  
Thr Gln Met Gly Asp Glu Lys Val Leu Leu Xaa Lys Xaa Lys Thr Leu  
35 40 45  
Asp Gly Asn Ser Ser Gly Lys Arg Asn Glu Xaa Arg Asn Lys Arg Arg  
50 55 60  
Lys Gln Xaa  
65

<210> 1454  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1454  
Asn Ser Glu His Ser Thr His Val Trp His Phe Lys Val Lys Thr Ser  
1 5 10 15

Val Thr Ser Arg Thr Lys Glu Ile Val Ser Tyr Thr Phe Ile Phe Met  
20 25 30

Asn Ser Phe Ile Phe Leu Phe Asn Asp Ser Leu Phe  
35 40

<210> 1455

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1455

Thr Ser Thr Ser Trp Cys Val Ser Leu Thr Gly Val Glu Asp Gln Thr  
1 5 10 15

Gly Xaa Xaa Xaa Xaa Cys Ser Glu Arg Val Arg Ser Tyr Trp Ile Ile  
20 25 30

Ile Xaa Leu Asn Pro Lys Gln  
35

<210> 1456  
<211> 149  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>



<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1456

Ser Pro Pro Pro Gly Leu Ala Leu Pro Gly Gly Tyr Asp Trp Ser  
1 5 10 15  
His Trp Ser Arg Arg Ile Pro Ala Ser Ser Val Ala Ala Ser Thr Ser  
20 25 30  
Leu Ser Arg Pro Arg Pro Ala Pro Arg Arg Leu Leu Trp Val Arg Pro  
35 40 45  
Pro Arg Gly Ala Ala Xaa Ser Gln Ala Ala Gly Gln Ala Arg Leu Lys  
50 55 60  
Ser Leu Gln Trp Leu Thr Asn Leu Ser Leu Ser Val Leu Thr Trp Pro  
65 70 75 80  
Xaa Ile Asp Tyr Gly Arg Leu Gly Val Asn Ser Ile Pro Thr Ile Lys  
85 90 95  
Val Ile Ser Gln Ser Pro Leu Xaa Gln Ala Thr Val Met Ser Ser Xaa  
100 105 110  
Xaa Phe Gly Gly Ile Ala His Thr Xaa Xaa Thr Glu Xaa Xaa Arg Asn  
115 120 125  
Asp Thr Asn Met Ser Gln Ser Phe Xaa Gly Asn Leu Asp Pro Trp Asn  
130 135 140  
Val Phe Ser Xaa Trp  
145

<210> 1457

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (124)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1457  
 Glu Ala Ala Ala Leu Gly Leu Ser Gln Pro Ser Gly Cys Trp Cys Cys  
     1                  5                  10                  15  
 His Pro Pro Ala Leu Ser Leu Trp His Phe Pro Pro Leu Arg Pro Trp  
                   20                  25                  30  
 Arg Ala Leu Pro Val Gly Leu Ala Ala Pro Gln Asn Leu Gly Pro Ser  
           35                  40                  45  
 Ser Ser Ile Gly Phe Ser Pro Gly Phe His Leu Leu Pro Arg Ala Gln  
     50                  55                  60  
 Pro Leu Thr Cys Phe Ile Gly His Ser Gly Cys Ser Leu Thr Gln Trp  
     65                  70                  75                  80  
 Leu Val Gly Arg Gly Val Thr Glu Gly Ser Gln Gly Pro Val Gly Val  
                   85                  90                  95  
 Pro Gly Gln Lys Asn Trp Leu Gln Leu Pro Val Trp Ser Arg Val Phe  
           100                  105                  110  
 Arg Val Asn Val Xaa Asn Phe Lys Gly His Ser Xaa Asn Gln Leu Gly  
           115                  120                  125  
 Val Lys Ser Leu Arg Met Xaa Asn Leu Xaa Gly Arg  
     130                  135                  140

<210> 1458  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1458  
Pro Pro Arg Cys Ser Arg Ser Xaa Thr Ser Xaa Xaa Pro Gly Cys Arg  
1 5 10 15  
Asn Ser Ala Arg Ala Cys Lys Thr Ala Gly Cys Thr Ala Ser Ser Lys  
20 25 30  
Pro Arg Xaa Ser Glu Gln Ile Leu Arg  
35 40

<210> 1459  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1459  
Arg Val Phe Phe Phe Phe Phe Phe Phe Leu Asp Gly Ile Phe Asn Leu  
1 5 10 15

Phe Ile Met Phe Val Ser Tyr Arg His Leu Cys Phe Xaa Gln Gln Phe  
20 25 30

Ile Ile Val Thr Ser His Thr Ser Xaa Ile Thr Thr Glu Arg Thr Leu  
35 40 45

Lys Tyr Lys Glu Arg Leu Gln Lys  
50 55

<210> 1460

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1460

Pro Gln Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser Pro Lys  
1 5 10 15

Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu Ser Lys  
20 25 30

Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu Arg Lys  
35 40 45

Arg Ser Ser Ser Thr Pro Thr Thr  
50 55

<210> 1461

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

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&lt;400&gt; 1461

Gly Phe Arg Glu Asn Lys Leu Lys Xaa Ile Lys Phe Val Lys Ser Asn  
1 5 10 15  
Tyr Ile Tyr Ile Lys Lys Pro Ile Cys Ile Arg Gln Lys Leu Phe Leu  
20 25 30  
Phe Ile Ser Val Arg Tyr Pro Leu Asn Lys Tyr Phe Ser Gly Xaa Lys  
35 40 45  
Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Xaa Xaa Lys Gly Gly Arg  
50 55 60  
Xaa Lys Gly Ser Xaa Leu Thr Phe Ala Cys Xaa Gln Arg His Thr Ser  
65 70 75 80  
Pro Xaa Leu Ser Pro Asn Phe Xaa Pro Leu Ala Val Phe Leu Gln Pro  
85 90 95  
Ser Xaa Leu Gly Lys Ser Xaa Xaa Val Xaa Gln Leu Lys Pro Pro Cys  
100 105 110  
Xaa Tyr Ile Pro Phe Ser Pro Ala Xaa Arg Xaa Phe  
115 120

&lt;210&gt; 1462

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1462

His Glu Ala Ala Pro Glu Phe Gly Arg Lys Ile Glu Ala Glu Asp Val  
1 5 10 15  
Glu Gly Ser Cys Gly Gly Gly Ser Asp Ala Ser Gly Thr Lys Leu Arg  
20 25 30  
Asn Ser Leu Thr Asp Pro Val Pro Arg Glu Arg Gly Ser Pro Gln Ala  
35 40 45  
Leu Leu Xaa

50

<210> 1463  
<211> 80  
<212> PRT  
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<400> 1463  
His Xaa Phe Ala Thr Val Met Asp Val Tyr Xaa Asn Pro Xaa Arg Val  
1 5 10 15  
Cys Leu Pro Ala Leu His Pro Lys Ala His Leu Leu Pro Pro Leu His  
20 25 30



Leu Arg Xaa Lys Thr Leu Gln Thr Ala Asp Thr Arg Lys Xaa Asn Ser  
35 40 45  
Gln Leu Cys Leu Met Leu Leu Val Ser Ser Thr Ser Xaa Gln Asn Arg  
50 55 60  
Tyr His Ala Glu Phe Arg Gly Pro Cys Xaa Ser Lys Ser Leu Leu Phe  
65 70 75 80

<210> 1464

<211> 81

<212> PRT

<213> Homo sapiens

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<400> 1464  
Val Phe Leu Cys Leu Cys Ala Ser Ala Met Xaa Lys Asn Thr Arg Gln  
1 5 10 15

Thr Thr Met Arg Ile Asn Xaa Xaa Asp Ala Leu Cys Thr Pro His Ser  
                   20                  25                  30  
 His Glu Pro Lys Lys Ile Phe Xaa Xaa Phe Leu Met Lys Glu Lys Xaa  
                   35                  40                  45  
 Cys Pro Leu Trp Xaa Leu Pro Pro Xaa Phe Xaa Xaa Xaa Ile Leu Phe  
                   50                  55                  60  
 Xaa Leu Pro Pro Pro Lys Asn Pro Xaa Xaa Xaa Cys Phe Leu Ala Xaa  
                   65                  70                  75                  80  
 Pro

<210> 1465  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

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 <223> Xaa equals any of the naturally occurring L-amino acids

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<400> 1465  
 Ile Gln Leu Gly Glu Pro Ala Gly Leu Val Arg Gln Xaa Leu Gly Leu  
   1                  5                  10                  15

Cys Gln Gln Gln Glu Val Lys Arg Xaa Thr Leu Pro Pro Ser Pro Pro  
                   20                  25                  30

Xaa Xaa

<210> 1466  
<211> 151  
<212> PRT  
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<400> 1466

Thr Val Leu Pro Xaa Met Xaa Ser Pro Met Gly His Pro Xaa Xaa Phe  
1 5 10 15

Pro Lys Pro Pro Xaa Lys His Thr Trp Ser Gln Ser Leu Leu Pro Pro  
20 25 30

Ala Leu Pro Leu Asn Trp Lys Gln Xaa Cys Ala Arg Trp Xaa Gly Leu  
35 40 45

Pro Gly Arg Gln Pro Leu Pro Xaa Ser Xaa Ala Lys Pro Xaa Ala Xaa  
50 55 60

Glu Arg Leu Leu Leu Arg Cys Pro Cys Pro Gly Leu Leu Thr Leu Ala

<400> 1467  
Gly Asn Leu Xaa Gly Gly Cys Gln Asn Leu Asn Lys Lys Met Ala Pro

1 5 10 15  
Thr Xaa His Ser Gln Thr Pro Leu Trp Xaa Leu Ala Leu Lys Xaa Lys  
20 25 30  
Xaa Arg

<210> 1468  
<211> 40  
<212> PRT  
<213> Homo sapiens  
  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1468  
His Val Leu Met Leu Ala Ala Asp Leu Asn Thr Leu Lys Val Leu Cys  
1 5 10 15  
Arg Lys Lys Lys Xaa Xaa Arg Ala Ala Ala Leu Glu Asp Pro Ser Leu  
20 25 30  
Arg Thr Arg Ala Cys Asp Xaa Ile  
35 40

<210> 1469  
<211> 30  
<212> PRT  
<213> Homo sapiens

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<220>  
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<400> 1469  
Ala Leu Cys Phe Lys Arg Leu Thr Gly Asn Tyr Ile Trp Xaa Thr Phe  
1 5 10 15  
Xaa Ala Leu Thr Leu Lys Xaa Leu Lys Ile Gln Val Asp Lys  
20 25 30

<210> 1470  
<211> 87  
<212> PRT  
<213> Homo sapiens

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<400> 1470

Thr Ser Pro Ser Arg Lys Cys Glu Glu Pro Gln Ala His Xaa Cys Ser  
 1 5 10 15  
 Ser Ala Pro Ser Leu Thr Phe Ser Pro Gly Gln Val Cys Ile Cys Ser  
 20 25 30  
 Leu His Trp His Phe Tyr Phe Gln Pro Leu Gly Ser Cys Phe Cys Leu  
 35 40 45  
 Leu Leu Arg Asn Leu Ser Pro Trp Gly Ser Phe Thr Thr Pro Ser Asn  
 50 55 60  
 Ile Gly Ser Gln Arg Xaa Thr Arg Glu Gly Xaa Phe Pro Arg Xaa Gly  
 65 70 75 80  
 Pro Asn Phe Xaa Arg Glu Phe  
 85

&lt;210&gt; 1471

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1471

Gly Ala Glu Asp Gly Gly Cys Ser Ile Cys Val Val Leu Leu Ser Thr  
 1 5 10 15  
 Leu Leu Cys Leu Ala Pro Asp Ser Ala Leu Cys Ser Leu Ala Gln Gln  
 20 25 30  
 Leu Cys Leu His Ile Ile Phe Met Val Leu Leu Cys Asn Ser Xaa Leu  
 35 40 45  
 Arg Trp Val Ala Thr Val Gln Ile Phe Ile Thr Leu Phe Arg Leu Ser  
 50 55 60  
 Glu  
 65

&lt;210&gt; 1472

&lt;211&gt; 68

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1472

Thr Pro Ile Asn Leu Thr Thr Ser Cys Ser Ala Tyr Ile Pro Pro Ser  
1 5 10 15

Ser Ala Asn Pro Asp Glu Gly Tyr Lys Val Ser Ala Ser Thr His Val  
20 25 30

Lys Thr Leu Gly Gln Gly Val Ala His Glu Val Ala Arg Asn Gly Leu  
35 40 45

His Phe Leu Pro Gln Lys Thr Thr Ile Ala Leu Met Lys Leu Lys Gly  
50 55 60

Arg Arg Trp Ile  
65

<210> 1473

<211> 132

<212> PRT

<213> Homo sapiens

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<400> 1473  
Xaa Gly Gly Gly Gly Glu Xaa Phe Phe Xaa Pro Pro Ser Arg Gly Gly  
1 5 10 15

Xaa Leu Xaa Phe Gly Val Asn Lys Pro Leu Pro Pro Gly Xaa Pro Arg  
20 25 30

Gly Ser Pro Gly Lys Xaa Phe Xaa Pro Gly Gly Phe Arg Xaa Xaa Leu

35 40 45  
Ile Ala Xaa Xaa Pro Gly Xaa Phe Xaa Pro Lys Lys Asn Lys Xaa Xaa  
50 55 60  
Phe Pro Phe Xaa Pro Xaa Leu Thr Trp Ala Ala Phe Ala Gln Lys Gly  
65 70 75 80  
Phe Gly Gly Gly Xaa Lys Gly Gln Xaa Pro Leu Xaa Leu Glu Thr Gly  
85 90 95  
Glu Lys Leu Gln Leu Trp His Xaa Ala Leu Xaa Val Val Pro Thr Cys  
100 105 110  
Lys Arg Gly Gln Xaa Gly Gly Asn Leu Asn Leu Pro Ser Lys Lys Lys  
115 120 125  
Leu Ala Lys Tyr  
130

&lt;210&gt; 1474

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1474

Ile Ile Met Ala Lys Lys Ser Ser Leu Arg Asn Lys Val Pro Phe Ser  
1 5 10 15  
Glu Lys Lys Lys Lys Lys Lys Lys Xaa Gly Gly Pro Phe Xaa Xaa Thr  
20 25 30

<210> 1475  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 1475  
Tyr Val Ala Leu Leu Asn Ile Thr Leu Arg Thr Arg Arg Leu Glu Thr  
1 5 10 15  
Thr Asn Pro Asn Tyr Val Ile Gly Lys Cys Arg Ile Lys Arg Pro Met  
20 25 30  
Tyr Ile Ser Thr Asp His Trp Ala Ile Met Leu Leu Leu Arg Leu Tyr  
35 40 45  
Ala Val Leu  
50

<210> 1476  
<211> 70  
<212> PRT  
<213> Homo sapiens  
  
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<220>  
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<400> 1476  
Thr Phe Leu Ser Gly Gly Glu Val Val Asn Gly Gly Gly Cys Ala Cys  
1 5 10 15  
Val Xaa Ala Arg Val Ile Trp Glu Phe Ser Val Pro Ser Val Gln Phe  
20 25 30  
Cys Tyr Glu Pro Lys Thr Ala Leu Lys Asn Asn Leu Cys Phe Lys Lys

35 40 45  
Val Xaa Val Leu Tyr Xaa Leu Leu Leu Glu Ile Phe Val Ala Ile Phe  
50 55 60  
Thr Trp Lys Asn Thr Gly  
65 70

<210> 1477  
<211> 90  
<212> PRT  
<213> Homo sapiens

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1477  
His Arg Thr Pro Val Pro Ala Arg Gly Gly Ala Arg Ala Leu Pro Arg  
1 5 10 15  
Ala Arg Gly Ala Trp Arg Gly Gly Arg Pro Ala Gly Gly Asp Arg Arg  
20 25 30  
Gly Thr Gly Tyr Pro Arg Pro Thr Glu Ala Pro Arg Arg Cys Arg Ile  
35 40 45  
Val Pro Pro Gly Xaa Asp Ser Asp Leu Glu Ala Phe Ser His Asn Pro  
50 55 60  
Thr Asp Gly Ser Phe Ala Pro Leu Ala Pro Gln Xaa Ser Thr Tyr Thr  
65 70 75 80  
Lys Cys Leu Asn Leu Arg Xaa Leu Ser Tyr  
85 90



<210> 1478  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 1478  
Ile Pro Asn Ile Leu Phe Asn Met Ile Lys Leu Ile Leu Asn Glu Ile  
1 5 10 15  
Leu Cys Cys Ser Leu Val Asn Leu Ser Phe Val Ile Leu Leu Val Cys  
20 25 30  
Leu Ser Cys Glu Gly Leu Gln Ser Asp Met Pro Ile Phe His Ser Gln  
35 40 45  
Ser Asn Tyr Lys Arg Ile Val Thr Ile Thr Gln Leu Cys Gln Glu Ile  
50 55 60  
Phe Phe Asn Ser Leu Arg  
65 70

<210> 1479  
<211> 59  
<212> PRT  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1479

Pro Val Pro Pro Ser Ser Ser Ala Arg Xaa Gly Gly Gly Gly Xaa Arg  
1 5 10 15

Arg Gly Arg Gly Xaa Val Pro Pro Ala Gly Xaa Ala Pro Gly Ala Xaa  
20 25 30

Val Pro Ala Ala Pro Arg Leu Gly Arg Arg Leu Xaa Ala Asp Leu Glu  
35 40 45

Leu Val Arg Xaa Arg Gly Ile Arg Leu Phe Asn  
50 55

<210> 1480

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1480

Leu His Pro Arg Pro Gly Leu Asp Val Met Gly Cys Gly Pro Leu Pro  
1 5 10 15

Ala Glu Pro Ile Xaa Arg Gln Val Arg Ala Ala Leu Gln Thr Phe Ala  
20 25 30

His Leu Xaa Ala Ser Xaa Pro Lys Val Pro Gly Gln Pro Glu Ala Pro  
35 40 45

Arg Pro Gln Pro Arg Xaa Pro Gln Xaa Phe Glu Ser Gly Ala His Ser  
50 55 60

Arg Ser Pro Leu Ala Leu Pro Thr Pro Ala Arg Xaa Gly Gly Xaa Ser  
65 70 75 80

Cys Pro Arg Xaa Arg Xaa Ala Pro Glu Asn Xaa Thr Pro Pro Leu Arg  
85 90 95

Arg Thr Asn

<210> 1481  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1481  
Ser Pro Ser Leu Ile Arg Xaa Pro Ile Gly Lys Ala Glu Xaa Ala Cys  
1 5 10 15  
Arg Tyr Arg Val Arg Glu Phe Pro Gly Arg Pro Thr Arg Pro Ile Thr  
20 25 30  
Ser Cys Arg Pro Pro Asn Ile Asn Leu  
35 40

<210> 1482  
<211> 99  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<222> (27)  
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<220>  
<221> SITE  
<222> (95)  
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<400> 1482  
Pro Arg Xaa Arg Glu Ile Pro Gly Gly Arg Thr His Ala Phe Arg Glu  
1 5 10 15  
Lys Ala Cys Xaa Lys Gln Gly Glu Xaa Arg Xaa Glu Lys Gly Gly Leu  
20 25 30  
Val Ile Ser Lys Ser Leu Glu Arg Trp Glu Trp Thr Lys Lys Met Gly  
35 40 45  
Thr Pro Pro Leu Phe Gln Ala Trp Glu Gly Val Leu Asn Gly Arg Asp  
50 55 60  
Phe Leu Phe Pro Ala Thr Lys Arg Leu Phe Thr Thr Tyr Pro Val Lys  
65 70 75 80  
Ser Lys Phe Ile Phe Gln Glu Phe Asn Met Tyr Phe Ser Trp Xaa Tyr  
85 90 95  
Leu Cys Gln

<210> 1483  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1483  
Cys Asn Ser Val Ser Phe Arg Phe Leu Ser Cys Phe Cys Lys Leu Trp  
1 5 10 15  
Glu Arg Leu Thr Met Gln Met Cys Gln Arg His Thr Val Gly Cys Asn  
20 25 30  
Ile Asn Asn Phe Lys Cys Lys Phe Leu Trp Ile Asn Tyr Phe Tyr Ile  
35 40 45  
Leu

<210> 1484  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 1484  
Cys Lys Gln Tyr Leu Thr Asn Pro Gln Val Leu Asn Tyr Gln Thr Cys  
1 5 10 15  
Ile Lys Asn Phe Gly Trp Gly Asp Leu Gly Ala Glu Pro Asn Leu Arg  
20 25 30  
Ala Val His Ala Lys Thr Ser Pro Val Lys Ala Asn Tyr Tyr Thr Gln  
35 40 45  
Leu Ile Gln  
50

<210> 1485  
<211> 22  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1485

Leu Ser Leu Leu His Glu Xaa Pro His Val Gly Xaa Xaa Xaa Phe Asp  
1 5 10 15

Ile Leu Val Pro Arg Xaa  
20

<210> 1486

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1486

Glu Gln Thr Cys Phe Leu Asn Leu Val Ile Phe Val Lys Asn Cys Leu  
1 5 10 15

Asp Ser Phe Ser His Gln Arg Glu Ser Thr Ser Ser Glu Ser Ala Ser  
20 25 30

Ala Pro Cys Ser Leu Leu Leu Arg Gly Arg Val Thr Ser His Trp Gln  
35 40 45

Ala Ser Gly Ile Val Cys Glu Ala Leu Gln Arg Ala Ala Pro Gly Ser  
50 55 60

Cys Leu Tyr Lys Asn Ile Leu Leu Pro Ala Ala Leu Ser Leu Ala Leu  
65 70 75 80

His Phe Gly His Asp Ile Arg Cys Val Phe Ile Gln Leu Val Val Lys  
85 90 95

Met Leu Leu Leu Asn Gly Ser Ala Tyr Leu Cys Leu His Gly Leu Xaa  
100 105 110

Glu Val Gly Phe His Gly His Ser Val Ser Thr Asp Leu Glu  
115 120 125

<210> 1487

<211> 51

<212> PRT

<213> Homo sapiens

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1487

Val Glu Ala Thr Asn Leu Pro Glu Pro Gly Asp Ser Trp Xaa Val Gln  
1 5 10 15

Asp Lys Asn Leu Ser Ser Thr Phe Lys Phe Trp Pro Thr Xaa Pro Xaa  
20 25 30

Lys Phe Pro Trp Xaa Ile Asn Arg Xaa Val Gln Glu Gly Pro Gly Xaa  
35 40 45

Gly Thr Pro  
50

<210> 1488

<211> 37

<212> PRT

<213> Homo sapiens



&lt;400&gt; 1488

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30

Ser Lys Ile Glu Ser  
35

&lt;210&gt; 1489

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1489

Gly Gly Met Arg Xaa Ser His Leu Gln Leu Leu Ser Xaa Glu Arg Thr  
1 5 10 15

Leu Gly Thr Glu Lys Asn Arg Gly Xaa Xaa  
20 25

&lt;210&gt; 1490

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1490  
Ser Phe Leu Ile Xaa Ser Phe Xaa Ile Lys Arg Xaa Arg Asn Leu Met  
1 5 10 15  
Thr Gly Arg His Ser Phe Lys Thr Tyr Ser Gln Xaa Pro Ile Thr Ala  
20 25 30  
Gln Asn Xaa Ile Xaa Cys Leu  
35

<210> 1491  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 1491  
Thr Leu Ala Tyr Phe Val Ile Asp Tyr Lys Gln Ile Glu Glu Ile Thr  
1 5 10 15

Ile Ser His Phe Cys Ile Phe Ser Lys Ile Ile Leu Leu Gln Ser Ser  
20 25 30

Ile Tyr Cys Val Pro Leu Ile Phe Tyr Cys Glu Ser Lys Glu Phe His  
35 40 45

Gln Asn Ile Leu Asn Tyr Glu  
50 55

<210> 1492

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1492

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
20 25 30

Ser Lys Ile Glu Ser  
35

<210> 1493

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1493

Ile Cys Pro Xaa Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser  
1 5 10 15

Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu  
20 25 30

Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu  
35 40 45

Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
50 55

<210> 1494  
<211> 95  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1494  
Glu Ser Trp Leu Cys Ser Gly Gly Gly Met Gln Gly His Leu Leu Lys  
1 5 10 15  
Glu Gly His Gly Gln Asn Asn Ile Glu Phe Pro Ala Pro Leu Gly Ser  
20 25 30  
Asp Leu Leu Asp Thr Glu Pro Pro Phe Lys Met Gly Gln Gly Lys Gly  
35 40 45  
Gly Ser Val Gln Ser Pro Asp Leu Glu Leu Pro Glu Ala Ile Ala Ala  
50 55 60  
Leu Phe Thr Ser Lys Gly Pro Val Leu Arg Leu Phe Val Leu Ile Tyr  
65 70 75 80  
Phe Lys Leu Gly Lys Ala Gly Gly Arg Val Xaa Pro Xaa Xaa Xaa  
85 90 95

<210> 1495  
<211> 67

<212> PRT  
<213> Homo sapiens

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1495  
Leu Ala Pro Gln Ala Gly Val Pro Pro His Ser Ala Pro Arg Pro Xaa  
1 5 10 15

Ser Xaa Leu Ser Xaa Xaa Pro Gly Pro Ala Pro Val Pro Pro Arg Pro  
20 25 30  
Arg Ser Ala Gly Pro Pro Trp Ser Ala Gly Leu Asp Arg Xaa Gly Gly  
35 40 45  
Ala Trp Leu Leu Val Ala Xaa Arg Ala Leu Xaa Gln Xaa Leu Ser Ser  
50 55 60  
Asp Leu Xaa  
65

<210> 1496  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1496  
Glu Asn Pro Ser Lys Val Asn Ser Pro Ala Leu Gly Xaa Xaa Ser Xaa  
1 5 10 15  
Ala Ser Trp Arg Leu Xaa Val Xaa Leu Ile Ser Gly Asn Pro Xaa Gln  
20 25 30  
Ile Cys Ser Tyr Xaa Ser Arg Arg Xaa Ile Gly Ser Val Tyr Cys Asp  
35 40 45  
Gly Asn Xaa Asn Val Thr Val Lys Arg Phe Ala Phe Cys Gly Leu Gly  
50 55 60  
Arg Ala Xaa Asn Phe Leu Leu Arg Leu Ser Leu His  
65 70 75

<210> 1497  
<211> 103  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1497  
Leu Pro Arg Cys Ala Pro Gly Ser Gln Ala Pro Pro Glu Gly Pro Trp  
1 5 10 15  
Pro Arg Arg Ile Arg Arg Val Arg Pro Gly Pro Arg Val Arg Gln Pro  
20 25 30  
Arg Arg Pro Ser Ala Ser Leu Arg Pro Ser Arg Ala Arg Pro Gly Arg  
35 40 45  
Ser Xaa Phe Pro Arg Pro Pro Pro Xaa Arg Leu Pro Ala Ala Ser Arg  
50 55 60  
Val Gly Ala Xaa Arg Gly Leu Xaa Pro Leu Leu Lys Phe Glu Ser Xaa  
65 70 75 80  
Asn Gln Xaa Val Arg Asn Pro Glu Ile Pro Asp Pro Leu Arg Lys Met  
85 90 95  
Phe Ser Xaa Glu Gly Glu Arg  
100

<210> 1498



<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1498  
Gly Arg Xaa Gly Gly Arg Ala Gly Gly His Glu Ala Arg Ala Ala Xaa  
1 5 10 15  
Ala Gly Gly Val Gly Arg Arg Ala Arg Gly Gly Gly Arg Xaa Gly Met  
20 25 30

<210> 1499  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1499  
Val Ser His Leu Leu Ala Gly Phe Cys Val Trp Val Val Leu Xaa Trp  
1 5 10 15  
Val Gly Gly Ser Val Pro Asn Leu Gly Pro Ala Glu Gln Xaa Gln Asn  
20 25 30  
His Tyr Leu Pro Ser Cys Leu Ala Val Arg Arg Glu Trp Xaa Ala Asp  
35 40 45  
Cys Lys Gly Leu Gly Ala Val Phe His Asn Leu Xaa Leu Xaa Gln Val  
50 55 60  
Gln Gly Leu Xaa Leu  
65

<210> 1500  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1500  
Asn His Glu Arg Asn Lys Lys Glu Thr Lys Gln Lys Arg Asn Glu Lys  
1 5 10 15  
Asp Ile Met Met Ser Ser Lys Pro Thr Ser His Ala Glu Val Asn Glu  
20 25 30  
Thr Ile Pro Asn Pro Tyr Pro Pro Ser Ser Phe Met Ala Pro Gly Phe

35 40 45  
Gln Gln Pro Leu Gly Ser Ile Asn Leu Glu Asn Gln Ala Gln Gly Ala  
50 55 60  
Gln Arg Ala Gln Pro Tyr Gly Ile Thr Ser Pro Gly Ile Phe Ala Ser  
65 70 75 80  
Ser Gln Pro Gly Gln Gly Asn Ile Xaa Met Ile Asn Pro Ser Val Gly  
85 90 95  
Thr Ala Val Met Asn Phe Lys Arg Lys Lys Gln Arg His  
100 105

<210> 1501  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1501  
Val Asp Glu Gly Gly Tyr Trp Gly Trp Leu Xaa Xaa Lys Ile Met Glu  
1 5 10 15

Asn His Phe Ser Ile His Leu Pro Ile Leu Asn Leu Xaa Asn Lys Val

20 25 30  
Ile Tyr Cys Lys Val Leu Cys Pro Leu Lys Glu Val Leu Lys Arg Val  
35 40 45  
Arg Met Asp Leu Lys Lys Asn Xaa Asn Leu Glu Xaa Phe Lys Met Val  
50 55 60  
Phe Val Gly Arg Phe Leu Leu  
65 70

<210> 1502  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)



<210> 1504  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1504  
Xaa Leu Glu Pro Gln Pro Gly Pro Xaa Arg Pro Xaa Arg Pro Pro Ser  
1 5 10 15  
Arg Arg Ser Trp Xaa Gln Gly Lys Pro Thr Gly Xaa Glu Arg Glu Ala  
20 25 30  
Ala Ala Arg Ser  
35

<210> 1505  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1505  
Ala Val Xaa Phe Asn Phe Leu Ser Ala Ala Ser Cys Val His Phe Leu  
1 5 10 15  
Leu Lys Val Ile Gly Phe Cys Leu Ser Ser Lys His Lys Asn Leu Lys  
20 25 30  
Gly Val Leu Gln Ile Phe Cys Ala Xaa Arg Trp Leu Phe Pro Ser Gly  
35 40 45  
Ser Xaa Phe Leu Asn Asn Asn  
50 55

<210> 1506  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 1506  
Ile Cys Ile Val Pro Pro Val Ser Leu Ile Arg Met Thr Cys Ala  
1 5 10 15  
Ile Phe Gln Arg Thr Cys Arg Gln Ala Gly Ile Leu Asp Tyr Phe Ser  
20 25 30  
Tyr Ser Glu Thr Trp Pro Val Trp Glu Cys Gly Ile Gln Arg Trp Ser  
35 40 45  
His Arg Cys Pro Tyr Cys Lys Trp Gln Phe  
50 55

<210> 1507  
<211> 49

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1507  
Leu Thr Xaa Ile Xaa Tyr Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg Tyr  
1 5 10 15  
Arg Ser Gly Ile Xaa Gly Ser Thr His Ala Ser Ala Asp Ala Xaa Val  
20 25 30  
Gly Gly Gln Gly Lys Val Tyr Ser Lys Ser Xaa Lys Pro Cys Gln Leu  
35 40 45  
Lys

<210> 1508  
<211> 120  
<212> PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1508

Val Pro Leu Pro Pro Ser Leu Arg Ser Pro Gly Ser His Arg Arg His  
1 5 10 15

His Ala Ser Gly Lys Pro Gln Arg Gly Leu Pro Ala Ser Gln Pro Pro  
20 25 30

Arg Arg Ala Leu Cys Pro Pro Ala Arg Ala Pro Thr Ala Leu Gly Ser  
35 40 45

Arg Pro Ser Pro Arg Pro Phe Gly Pro Xaa Gly Ala His Gly Ser Asp  
50 55 60

Gly Asp His Gly Arg Arg Gly Ser Arg Gly Leu Gly Cys Gly Thr Arg  
65 70 75 80

His Gly Gln Arg Pro Asp Arg Ser Leu Gln Arg Gly Glu Leu Gly Ala  
85 90 95

Leu Pro Ala Cys Cys Pro Xaa Gly Xaa His Pro Arg Xaa Pro Xaa Ala  
100 105 110

Pro Ala Xaa Gly Ala Leu Arg Leu  
115 120

<210> 1509

<211> 100

<212> PRT

<213> Homo sapiens

<220>

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (17)

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<222> (29)

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<222> (37)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1509  
Val Ser Ile Val Ala Ala Gln Met Phe Leu Phe Phe Xaa Val Xaa Leu  
1 5 10 15

Xaa Xaa Ile Ser Pro Xaa His Leu Thr Ser Leu Trp Xaa Ile Met Val  
20 25 30  
Ser Glu Leu Ile Xaa Thr Phe Thr Gln Leu Glu Glu Asn Leu Lys Asp  
35 40 45  
Glu Xaa Xaa Ser Leu Xaa Xaa Thr Xaa Lys Val Asn Arg Ile Xaa Val  
50 55 60  
Ser Val Pro Asp Ala Asn Gly Pro Ser Val Gly Glu Xaa Pro Xaa Ser  
65 70 75 80  
Glu Leu Ile Leu Tyr Leu Ser Ala Xaa Lys Phe Leu Asp Thr Ala Ala  
85 90 95  
Phe Phe Xaa Thr  
100

<210> 1510  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1510  
Gly Lys Ser Lys Phe Trp Val Glu Val Leu Xaa Ser Met Ser Phe Leu  
1 5 10 15  
Leu Phe Leu Phe Tyr Leu Lys Xaa Leu Ile Tyr Pro Glu Trp Gln Xaa  
20 25 30  
Leu Xaa Gln Ala Asp Gly His Asn Leu Xaa Ser Lys Xaa Phe Phe Ile  
35 40 45

<210> 1511  
<211> 33  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1511  
Val Arg Xaa Ser Phe Leu Cys Thr Val Phe Leu Arg Arg Met Xaa Leu  
1 5 10 15  
Asp Ser Cys Leu Leu Ser Cys Ser Pro Ser Leu Ile Met Glu Leu Ser  
20 25 30  
Xaa

<210> 1512  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1512  
Lys Leu Val Pro Leu Gln Val Pro Val Arg Asn Ser Arg Ala Lys Tyr  
1 5 10 15  
Glu Asn Lys Ser Phe Glu Lys Asn Thr Val Cys Lys Ile Cys Ser Phe  
20 25 30  
Val Glu Val Met Val Leu Cys Phe Tyr Lys Ile Val Pro Thr Pro Phe  
35 40 45  
Phe Tyr Phe Arg Tyr Phe Ile Ser Thr Ile Ser Ile Asn  
50 55 60

<210> 1513  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1513  
Ile Pro Xaa Ser Ser Leu Gly Xaa Tyr Pro Cys Arg Tyr Arg Ser Gly  
1 5 10 15  
Ile Pro Gly Ser Thr His Ala Ser Val Xaa Leu Arg Cys Gly Ala Pro  
20 25 30  
Thr Ala Asp Xaa Ala Ala Gly Pro Xaa Arg Ser Ala Ala Xaa Arg Ser  
35 40 45  
Gln Glu Ala Gly Thr Ser Trp Lys Xaa Arg Pro Ala Arg  
50 55 60

<210> 1514  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 1514  
Pro Arg Xaa Arg Ala Arg Arg Ala Glu Asp Gly Ile Gly Leu Asp Leu  
1 5 10 15  
Pro Leu Tyr Pro Ala His Pro Gln Asp Phe His Glu Val Glu Asp Leu  
20 25 30  
Ile Lys Thr Ala Ile Gly Asn Thr Leu Val Gln Asp Ile  
35 40 45

<210> 1515  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1515  
Ala Ser Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe Phe Phe Phe Phe  
1 5 10 15  
Phe Phe Phe Phe Phe Ser Phe Ile Leu Leu Phe Ile Phe Pro Xaa Tyr  
20 25 30  
Xaa Asn Xaa Gln Gln Leu Xaa  
35

<210> 1516  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1516  
Thr Leu Xaa Gly Leu Pro His Gln Xaa Gln His Xaa Asp Arg Pro Gln  
1 5 10 15  
Ser Cys Thr Phe Ala Pro Lys Leu Leu Phe Thr Xaa Pro Phe Asn Leu  
20 25 30  
Xaa Ala Ala Thr Thr Ser Gln Gly Arg His Arg Glu Gly Glu Xaa Arg  
35 40 45  
Lys Lys Ser Xaa Ser Leu Leu Ser Ser Lys Thr Thr Thr Asn Tyr Thr  
50 55 60  
Gly Phe  
65

<210> 1517  
<211> 75  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1517  
Arg Thr Arg His Glu Lys Xaa Gly Asp Lys Ser Arg Ile Asn Thr Gly  
1 5 10 15  
Cys Ser Gln Phe Cys Leu Leu Lys Lys Lys Lys Lys Lys Lys Lys  
20 25 30  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60  
Lys Lys Lys Lys Gly Gly Pro Val Xaa Xaa Xaa  
65 70 75

<210> 1518  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1518

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr Xaa  
1 5 10 15

Ala Ser Xaa Lys Xaa Lys Gly Leu Gln Lys His Ser Phe Leu Cys Cys  
20 25 30

Ser Leu Leu Gly Phe Met Gln Arg Gln Phe Cys Val Asn Val Gln Leu  
35 40 45

Thr Leu Ile Trp Lys Tyr Glu Asn Gln Ser Ile Leu Val Ile Lys Asn  
50 55 60

Phe Phe Thr Ile Val Ile Ile Leu Met Phe Ile Leu Cys Lys Ile Thr  
65 70 75 80

His Leu Ile Lys

&lt;210&gt; 1519

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1519

Phe Gln Leu Ser Pro Gly Thr Pro Lys Pro Leu Pro Leu Gly Leu Pro  
1 5 10 15

Ser Gln Pro Val Pro Arg Thr Ser Ser Ser Pro Phe Gln Ile Ile Lys  
20 25 30

Ser Met Asp Arg Ala Val Ser Glu Val Leu Thr Gln Gly Lys Lys Lys  
35 40 45

Lys Lys Lys Lys  
50

&lt;210&gt; 1520

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520  
Ile Asn Ile Cys Ser Phe Gln Lys Lys Lys Lys Lys Lys Lys Lys  
1 5 10 15  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa  
20 25 30  
Gly Gly Arg Phe Lys Gly Xaa Lys Xaa Thr Tyr Xaa Xaa  
35 40 45

<210> 1521  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1521  
Xaa Thr His Leu Arg Ser Asp Trp Thr Arg Xaa Ile Ile Leu Arg Ile  
1 5 10 15  
Ala Asn Xaa Ser Leu Gly Leu Xaa Leu Xaa Val Asp Phe Ser Met Leu

20 25 30  
Arg Xaa Xaa Pro Xaa Arg Leu Glu Leu Xaa Leu Asp Asp Xaa Glu Glu  
35 40 45  
Phe Glu Asn Ile Xaa Lys Asp Leu Glu Thr Arg Lys Lys Gln Lys Glu  
50 55 60  
Asp Val Glu Val Val Xaa Gly  
65 70

<210> 1522  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1522  
Ser Glu Lys Val Lys Thr Ala Phe Thr Lys Pro Gly Arg Trp Gly Leu  
1 5 10 15  
Cys Glu Pro Leu Cys Thr Gly Ser Leu Arg Asp Ser Ala Trp Cys Ser  
20 25 30  
Arg Xaa Ile Leu Ala Xaa Val Gly Glu  
35 40

<210> 1523  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1523  
Gly His Ala Leu Leu His Leu Lys Asn Lys Leu Cys Ser Asn Cys His  
1 5 10 15  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
20 25 30  
Asn Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45  
Lys Lys Lys Xaa Gly Gly Xaa Phe Lys Xaa  
50 55

<210> 1524  
<211> 24  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1524  
Pro Val Leu Thr His Gly Met Pro Pro Ala Ile Arg Pro Xaa Xaa Ser  
1 5 10 15  
Ser Trp Ser Ser Ser Thr Xaa Thr  
20

<210> 1525  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1525  
Ser Lys Ser Arg Glu Leu Pro Leu Leu Val Thr Cys Pro Leu Leu  
1 5 10 15  
Ser Ser Phe Cys Ser Gly Lys Pro Trp Asp Ser Ala Xaa Thr Tyr His  
20 25 30  
Cys Arg Cys  
35

<210> 1526  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 1526  
Ser Leu Ala Lys His Leu Asn His Leu Ser Ile Leu Ser Trp Phe Ile  
1 5 10 15  
Ile Ile Lys Ala Gln Asn Asn Leu Leu Leu Glu Asn Met Cys Phe Tyr  
20 25 30  
Lys

<210> 1527  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1527

Xaa Gly Xaa Gly Glu Thr Gln Gly Xaa Ala Met Gly Cys Met Val Ala  
1 5 10 15

Ser Gly Leu Leu Thr Gly Leu Ala Glu Val Leu Xaa Xaa Leu Xaa Xaa  
20 25 30

Thr Xaa Gln Xaa Gly Xaa Xaa Gln Tyr Xaa Xaa Phe Arg Val Xaa Leu  
35 40 45

Glu Ser Met Xaa Xaa Leu Xaa Asp Leu Glu Ala Xaa Trp Ala Pro Ser  
50 55 60

Pro Xaa Leu Glu Ala Xaa Xaa Leu Leu Ala Ala Val Cys His His Pro  
65 70 75 80

Ala Leu Xaa Leu Arg  
85

&lt;210&gt; 1528

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1528

Ile Cys Pro Gln Asn Pro Leu Asn Pro Leu Val Asn Leu Thr Val Ser  
1 5 10 15

Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Glu  
20 25 30

Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser His Gln Leu  
35 40 45

Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
50 55

&lt;210&gt; 1529

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1529

Cys Phe Ser Leu Cys Met Gly Gly Thr Ser Ala Val Ser Glu Ser Thr

1 5 10 15  
Thr Ile Ser Ser Gly Ala Gly Pro Ser Ala Arg Pro Gln Lys Asn Arg  
20 25 30  
Arg Pro Gln Glu Ser Cys Arg Thr Gly Gly Leu Phe Leu Leu Ser Arg  
35 40 45  
Glu Ala Gln Gly Met Leu Trp Arg Asp Phe Thr Cys His His Phe Gln  
50 55 60  
Val Asn Arg Thr Arg Ala Leu Met Val Phe Lys Pro Cys Trp Lys Lys  
65 70 75 80  
Val Pro Met Val Ser Leu Val Leu Pro Val  
85 90

<210> 1530  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 1530  
Ala Asn Leu Gln Pro Lys Asn Leu Phe Lys Arg His Leu Trp Ser Cys  
1 5 10 15  
Asp Glu Thr Ser Ser Lys Thr His Ser Lys Thr Pro Leu Pro Pro Val  
20 25 30  
Gly His Gln Ser Ala Thr Lys His Glu Gln Ile Leu Leu Leu Ile Gly  
35 40 45  
Phe Pro Cys Asp Leu Val Pro Glu Val Phe Gly Ser Val Gln  
50 55 60

<210> 1531  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531  
Cys Asn Ile Ile Glu Met Lys Xaa Ser Leu Val Gly Thr Asp Ser Leu  
1 5 10 15  
Phe Ile Xaa Leu Gln Ser Leu Arg Ile His Xaa Xaa Lys Xaa His  
20 25 30

<210> 1532  
<211> 26  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1532

Ala Val Ser Ala Val Gln Tyr Ser Thr Asp Arg Trp Thr Gln Xaa Xaa  
1 5 10 15

Xaa His Xaa Gly Asn Arg His Leu Ser Ser  
20 25

&lt;210&gt; 1533

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1533  
His Xaa Ser Val Gln Leu Arg Thr Val Xaa Xaa Pro Ala Xaa Val Asn  
1 5 10 15  
Glu Pro Val Pro Xaa Xaa Ser Xaa Ser Lys Pro Pro Met Ser Ile Ser  
20 25 30  
Phe Xaa Ala His Leu Asn Thr Cys Xaa Tyr Ile Leu Tyr Ser Xaa Gln  
35 40 45  
Asn Asn Leu Tyr Leu Ile Xaa  
50 55

<210> 1534  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1534  
Gly Thr Leu Val Leu Asn Gln Xaa Ser Xaa Ser Leu Phe Met Tyr Cys  
1 5 10 15  
Phe Thr Xaa Phe Tyr Ser Tyr Val Lys Phe Trp Ile Asn Xaa Xaa Xaa  
20 25 30  
Cys Asn Tyr Lys Leu Arg Pro Val Xaa Leu Phe Leu Lys Ala Pro Tyr  
35 40 45

<210> 1535  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1535

Met	Gly	Pro	Leu	Ser	Ala	Xaa	Xaa	Cys	Arg	Leu	His	Val	Pro	Trp	Lys
1				5					10					15	

Glu	Val	Leu	Leu	Thr	Ala	Leu	Leu	Val	Xaa	Xaa	Trp	Asn	Pro	Pro	Thr
		20					25						30		

Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Xaa	Pro	Phe	Xaa	Val	Ala	Xaa	Gly
		35					40					45			

Lys	Glu	Val	Leu	Leu
				50

<210> 1536

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1536

Xaa Ile Ile Asn Thr Leu Leu Ala Leu Leu Leu Ile Ile Ile Thr Phe  
1 5 10 15

Xaa Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu  
20 25 30

Cys Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys  
35 40 45

Phe Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala  
50 55 60

Leu Leu Leu Pro Leu Pro  
65 70

&lt;210&gt; 1537

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1537

Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys  
1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe  
20 25 30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu  
35 40 45

Leu Leu Pro Leu Pro  
50

&lt;210&gt; 1538

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1538

Leu Pro Gln Leu Asn Gly Tyr Ile Lys Lys Ser Thr Pro Tyr Xaa Cys  
1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe  
20 25 30

Phe Leu Val Xaa Ile Thr Phe Leu Leu Phe Asp Leu Lys Ile Ala Leu  
35 40 45

Leu Leu Pro Leu Pro  
50

&lt;210&gt; 1539

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1539

Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys  
1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe  
20 25 30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu  
35 40 45

Leu Leu Pro Leu Pro  
50

&lt;210&gt; 1540

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1540

Val Cys Phe Lys Gly Leu Tyr Leu Thr Asn Gly Phe Pro Leu Thr Glu  
1 5 10 15

Leu Val Phe Ile Ser Asp Leu Thr Pro Leu Leu Asn Gly Ser Ser Gln  
20 25 30  
Asp Arg Met Phe Val Thr Thr Val Leu Glu Ile Glu Gln Leu Leu Ala  
35 40 45  
Arg Val Gly Val Leu Lys Asp Ser Ile  
50 55

<210> 1541  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1541  
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gly Ser Ser Asp Trp  
1 5 10 15  
Ser Tyr Gly Leu Glu Lys Gly Ser Leu Gly Met Pro Ser Glu Val Gly  
20 25 30  
Asp Arg Ala Gly Ala Gln Ala Pro Val Arg Asn Gly Arg Tyr Leu Ala  
35 40 45  
Ser Cys Gly Ile Leu Met Ser Arg Thr Leu Pro Leu His Thr Ser Ile  
50 55 60  
Leu Pro Lys Glu Ile Cys Ala Arg Thr Phe Phe Lys Ile Thr Ala Pro  
65 70 75 80  
Leu Ile Asn Lys Arg Lys Xaa Tyr Ser Glu Arg Arg Ile Leu Gly Tyr  
85 90 95  
Ser Met Gln Glu Met Tyr Asp Val Val Ser Gly Val Glu Asp Tyr Lys  
100 105 110  
His Phe Val Pro Trp Cys Lys Lys Ser Asp Val Ile Ser Lys Arg Ser  
115 120 125  
Gly Tyr Cys Lys Thr Arg Leu Glu Ile  
130 135

<210> 1542  
<211> 122  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1542

Ala Arg Glu Arg Leu Gly Met Asp Ala Leu Val Ala Glu Glu Glu Ala  
1 5 10 15  
Glu Ala Lys Gly Asn Glu Val Arg Pro Ser Gly Arg Val Phe Leu Ser  
20 25 30  
Ser Ala Ala Leu Arg Leu Thr Cys Thr Phe Ser Ser Gly Xaa Gly Pro  
35 40 45  
Ser Cys Gln Pro Phe Gln Asn Ile Phe Pro Trp Ile Leu Arg Tyr Leu  
50 55 60  
Thr Phe Gln Asp Ser Arg Val Leu Ile Ile Xaa Leu Gly Asn Phe Trp  
65 70 75 80  
Xaa Xaa Trp Thr Gln Ser Xaa Phe Leu Lys Phe Xaa Pro Gln Gly Leu  
85 90 95  
Pro Ala Leu Gly Gly Ser Lys Val Phe Pro Lys Gly Pro Xaa Xaa Pro  
100 105 110  
Ala Pro Phe Phe Lys Xaa Arg Ile Xaa Ser  
115 120

&lt;210&gt; 1543

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1543

Tyr Pro Ala Ser Gln Ile Val His His Phe Met Glu Leu Cys Trp Asp  
1 5 10 15

Lys Cys Val Glu Lys Pro Gly Asn Arg Leu Asp Ser Arg Thr Glu Asn  
20 25 30

Cys Leu Ser Ser Cys Val Asp Arg Phe Ile Asp Thr Thr Leu Ala Xaa  
35 40 45

Thr Gln Ser Val Cys Pro Xaa Leu Xaa  
50 55

&lt;210&gt; 1544

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1544

Gly Gly Ile Ala Xaa Ala Gly Ser Gly His Met Asn Tyr Ile Gln Val  
1 5 10 15

Thr Pro Gln Glu Lys Xaa Ala Ile Glu Arg Leu Lys Ala Leu Gly Phe  
20 25 30

Pro Glu Gly Leu Val Ile Gln Ala Tyr Phe Ala Cys Glu Lys Asn Glu  
35 40 45

Asn Leu Ala Ala Asn Phe Leu Leu Gln Gln Asn Phe Asp Glu Asp  
50 55 60

&lt;210&gt; 1545

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1545

Glu Gly Leu Thr Pro Gln Glu Ile Cys Asp Lys Tyr His Ile Ile Gln  
1 5 10 15  
Ser Leu Gly Leu Cys Cys Cys Thr Ile Leu Ile Cys Pro Thr Gln Ile  
20 25 30  
Glu Gly Val Pro Leu Ala Glu Gly Leu Thr Pro Gln Glu Ile Cys Asp  
35 40 45  
Lys Tyr His Ile Ile His Ala Asp Ile Tyr Arg Trp Phe Asn Ile Ser  
50 55 60  
Phe Asp Ile Phe Gly Arg Thr Thr Thr Pro Gln Gln Thr Lys Ile Thr  
65 70 75 80  
Gln Asp Ile Phe Gln Gln Leu Leu Lys Arg Ser Phe Val Leu Gln Asp  
85 90 95  
Thr Val Xaa Gln Leu Arg Cys Glu His Cys Ala Arg Phe Leu Ala Asp  
100 105 110  
Arg Phe Arg Gly Arg Arg Val Ser Leu Leu Trp Leu  
115 120

&lt;210&gt; 1546

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1546

Xaa Gly Phe Thr Cys Arg Gln Lys Ala Ser Leu Asn Trp His Met Lys  
1 5 10 15



Lys His Asp Ala Asp Ser Phe Tyr Gln Phe Ser Cys Asn Ile Cys Gly  
20 25 30

Lys Lys Phe Glu Lys Lys Asp Ser Val Val Ala His Lys Ala Lys Ser  
35 40 45

His Pro Glu Val Leu Ile Ala Glu Ala Leu Ala Ala Asn Ala Gly Ala  
50 55 60

Leu Ile Thr Ser Thr Asp Ile Leu Gly Thr Asn Pro Glu Ser Leu Thr  
65 70 75 80

Gln Pro Ser Asp Gly Gln Gly Leu Pro Leu Leu Pro Glu Pro Leu Gly  
85 90 95

Asn Ser Thr Ser Gly Glu Cys Leu Leu Leu Glu Ala Glu Gly Met Ser  
100 105 110

Lys Ser Tyr Cys Ser Gly Thr Glu Arg Val Ser Leu Met Ala Asp Gly  
115 120 125

Lys Ile Phe Val Gly Ser Gly Ser Ser Gly Gly Thr Glu Gly Leu Val  
130 135 140

Met Asn Ser Asp Ile Leu Gly Ala Thr Thr Glu Val Leu Ile Glu Asp  
145 150 155 160

Ser Asp Ser Ala Gly Pro Xaa Trp Thr Gly Arg Leu Gly Ala Trp Asp  
165 170 175

Ser Ser Asp Phe Val Phe Lys Ser  
180

&lt;210&gt; 1547

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1547

gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60  
aattcgaggg tgcaccgtca gtcttctctt tccccccaaa acccaaggac accctcatga 120  
tctcccggac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180  
tcaagtcca ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgaggg 240  
aggagcagta caacagcagc taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300  
ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360  
agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420  
catccccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480  
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540

ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600  
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660  
acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
gactctagag gat 733

<210> 1548

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548

Trp Ser Xaa Trp Ser  
1 5

<210> 1549

<211> 86

<212> DNA

<213> Homo sapiens

<400> 1549

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60  
cccgaaatat ctgccatctc aattag 86

<210> 1550

<211> 27

<212> DNA

<213> Homo sapiens

<400> 1550

gcggcaagct ttttgcaaag cctaggc 27

<210> 1551

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1551

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120  
gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180

ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 1552  
<211> 32  
<212> DNA  
<213> Homo sapiens

<400> 1552  
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 1553  
<211> 31  
<212> DNA  
<213> Homo sapiens

<400> 1553  
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 1554  
<211> 12  
<212> DNA  
<213> Homo sapiens

<400> 1554  
ggggactttc cc 12

<210> 1555  
<211> 73  
<212> DNA  
<213> Homo sapiens

<400> 1555  
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
ccatctcaat tag 73

<210> 1556  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 1556  
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60  
caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcctt taactccgcc 120  
cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240

WO 00/55351

1629

PCT/US00/05883

cttttgcaaa aagctt

256

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05883

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(6) : C12P 21/04; C12N 15/00; C07H 21/02 US CL : 435/70.1, 320.1; 536/23.1 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/70.1, 320.1; 536/23.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	SCANLAN et al. Characterization of Human Colon Cancer Antigens Recognized by Autologous Antibodies, Int. J. Cancer, 1998, Vol. 76, pages 652-658.	1-4, 11-12, 16
Y		5-10, 14-15
X ---	TANAKA et al. A Novel Variant of Human Grb7 Is Associated with Invasive Esophageal Carcinoma, J. Clin. Invest., August 1998, Vol. 102, No. 4, pages 821-827.	1-4, 11-12, 16
Y		5-10, 14-15
X ---	KISHI et al. Molecular Cloning of Human GRB-7 Co-amplified with CAB1 and c-ERBB-2 in Primary Gastric Cancer, Biochemical and Biophysical Research Communications, 1997, Vol. 232, pages 5-9.	1-4, 11-12, 16
Y		5-10, 14-15
X ---	JIANG et al. Subtraction hybridization identifies a novel melanoma differentiation associated gene, mda-7, modulated during human melanoma differentiation, growth and progression, Oncogenes, 1995, Vol. 11, pages 2477-2486.	1-4, 11-12, 16
Y		5-10, 14-15
X ---	MUELLER et al. Polymerase Chain Reaction Selects a Novel Disintegrin Proteinase from CD40-Activated Germinal Center Dendritic Cells, J. Exp. Med., August 1997, Vol. 186, No. 5, pages 655-663.	1-4, 11-12, 16
Y		5-10, 14-15
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search	Date of mailing of the international search report	
18 May 2000 (18.05.2000)	13 JUN 2000	
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized officer Young J. Kim <i>Jerry J. Deyfor</i> Telephone No. (703) 308-0196	

Form PCT/ISA/210 (second sheet) (July 1998)

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05883

## C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FOJO et al. Donor Splice Site Mutation in the Apolipoprotein (Apo) C-II Gene (APO C-IIhamburg) of a Patient with APO C-II Deficiency, The Journal of Clinical Investigations, November 1988, Vol. 82, pages 1489-1494.	1-4, 11-12, 16
---		5-10, 14-15
Y		
X	JACKSON et al. Isolation of cDNA and Genomic Clones for Apolipoprotein C-II, Methods in Enzymology, 1986, Vol. 128, pages 788-800.	1-4, 11-12, 16
---		5-10, 14-15
Y		
X	HILLIER et al. Generation and Analysis of 280,000 Human Expressed Sequence Tags, Genome Research, 1996, Vol. 6, No. 9, pages 807-828.	1-4, 11-12, 16
---		5-10, 14-15
Y		
Y	WATSON et al. The Science Used in the Recombinant DNA Industry. In: Recombinant DNA, W.H. Freeman and Company, 1983, pages 231-241.	7-10, 14-15

# INTERNATIONAL SEARCH REPORT

Intern. nal application No.

PCT/US00/05883

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12,14,15,16,21

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05883

**BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING** This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-12, 14, 15, 16, and 21, drawn to cDNA, polypeptides, genes, a method of using the cDNA to make host cells comprising the cDNA, and a method of making the polypeptide.

Group II, claim(s) 13, drawn to an antibody specific for the polypeptides of Group I.

Group III, claim(s) 17, drawn to a therapeutic method of using the cDNA or the polypeptide of Group I.

Group IV, claim(s) 18 and 19, drawn to a diagnostic method of using the cDNA or polypeptide of Group I.

Group V, claim(s) 20, drawn to a method of using the polypeptide of Group I to isolate a binding partner.

Group VI, claim(s) 22, drawn to a method of using the cDNA of Group I to identify the activity of the polypeptide encoded by the cDNA.

Group VII, claim(s) 23, drawn to the binding partner made by the method of Group V.

The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: PCT Rule 13.1 and Annex B do not provide for unity of invention between two or more different products or methods of use that share a special technical feature.

In addition, each Group detailed above reads on distinct Groups drawn to multiple SEQ ID Numbers. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicants must further elect 10 SEQ ID Numbers for examination in the selected Group detailed above.

**Continuation of B. FIELDS SEARCHED Item 3: SEQUENCE DATABASES (US PATENT, INTERFERENCE, COMMERCIAL)**

STN COMMERCIAL DATABASE (Biosis, Medline, Embase, Embal, SciSearch, BiotechDS, CaPlus)

Search Terms: Recombinant, Host, Cell, Vector, peptide, protein, cDNA